English user manual

Re:source M117
entertainment system

REVOX

Dominating Entertainment.
Revox of Switzerland.

Contents

Welcome

Thank you for choosing to purchase the Revox Entertainment System. The Revox Entertainment System offers you simple and comprehensive access to your music, your movies and even your pictures.

All data can be found and displayed quickly using a comprehensive GUI with a uniform operating concept.

The operation of the complete system is simple and quick to learn, because irrespective of the functional level, the system can be controlled through just 7 buttons. The many buttons on the remote control don't contradict this promise. They are there to help the proficient user call up the most important functions even more quickly.

The Operating Manual has been put together in such a way that the description of the individual functions (sources) is done in individual chapters. At the end of the manual you will find the "General Functions" chapter, which contains basic operating information that applies to all areas of the M117.

Revox hopes that you have a lot of fun and of course a lot of entertainment, as you use your Revox Entertainment System.

Please pay particular attention to the advice given in this Operating Manual about safety, installation and also about making backups of your valuable music, movies and most importantly your pictures.

We reserve the right to make modifications and changes to the Revox Entertainment System, which could result in changes to operating processes.

Setup

Please check the unit and accessories after unpacking, to ensure that everything is there and that there are no signs of transit damage. Read the Operating Manual through carefully before starting to use the unit. Keep the manual for later reference. The Operating Manual is also installed on the M117 itself and can be read in PDF format.

A unit that shows signs of mechanical damage or which has had liquid in it should not be connected to the mains supply.

Only use the mains cable supplied. The unit's power supply and connection values (mains voltage, frequency) must be checked before connecting it to the mains. Fuses used in the device must comply with the factory definitions in the "Technical Data" section.

Scope of delivery

- Revox Entertainment System
- M117 remote control
  incl. two type CR2025 batteries
- Operating Manual on CD ROM
- Power cable
- HDMI cable
- Optical audio cable for TOS Link
- Analogue audio cable, 3.5 mm jack plug on RCA

Safety

Please take note of the labels on the back of the unit:

In order to avoid the risk of an electric shock, do not remove any covers. Maintenance and repairs should only be carried out by qualified experts.

There can be dangerous laser and electromagnetic emissions if the unit is opened.

Installation

▪ Please follow the instructions in the Operating Manual supplied.

▪ Do not position the unit close to strong heat sources or in direct sunlight.

▪ If installing in a cabinet or closed shelves, allow at least 5 cm of free space around the unit , so that the air can circulate freely and that there is no build up of heat. Do not cover the fan and openings at the back of the unit and ensure that there is sufficient circulation of fresh air.

▪ This unit conforms to protection class 1.

▪ The power plug should be removed from the socket during longer periods of non-use, for instance during an absence.

▪ Unplug the unit from the mains during storms. Voltage peaks through the mains power supply caused by lightning strikes can damage the unit.

▪ There must be easy access to the power plug so that the unit can be unplugged at any time.

▪ Lay the power cable such that it cannot be damaged. The power cable should not have kinks or be laid over sharp edges. It should not be walked on or be exposed to any chemicals. The last point is valid for the whole unit. A power cable with damaged insulation can lead to electric shocks and represents a fire hazard.

▪ Never pull on the cable when plugging the unit in or out. Always hold the plug.

▪ Take note of and follow the safety advice on the following pages.

Safety measures

Read and take note of the following safety advice for your own safety and to avoid unnecessary damage to your equipment. Please keep this safety advice in a safe place for future reference.

Avoid locating the unit in a position which:

- is exposed to direct sunlight
- is directly next to a source of heat
- has poor ventilation
- has a dusty atmosphere
- is unstable
- has high humidity

The guarantee only covers the intended usage of the unit.

High build-ups of dust and humidity cause creepage current in the unit that can cause a risk of shocks when touching the unit or lead to a fire.

If you have moved the unit from a cold to a warm environment, leave it switched off for about two hours because of a possible build up of condensation dampness.

You should always switch your M117 off before connecting or disconnecting other devices or speakers.

Protect your unit from:

- Damp, dripping water, splash water and steam.
- Impacts and mechanical loads
- Magnetic and electrical fields
- Cold, heat, direct sunlight and severe changes of temperature
- Dust
- Accesses made to the inside of the device
- Do not stand any articles with open flames, e.g. lit candles on the unit.

Please note

In order to exclude the risk of an electric shock, never remove the covers. Only have any repair work carried out by a Revox specialist dealer or by the Revox Service department.

Volume

Loud music can cause hearing damage. Avoid extremes of volume, particularly over longer periods of time and especially if you are wearing headphones.

Supervision

Do not allow children to handle the unit without supervision. Do not allow children in close proximity to the unit. Do not operate the M117 without supervision. Switch the power switch off or unplug the unit if you are going to be absent for a longer period of time.

Cleaning

The unit should be cleaned using just a damp, soft and clean cloth without any abrasive cleaning agents.

Regulations pertaining to the unit

In EU and EEC countries, Revox offers a guarantee on units bought in the EU, over and above the statutory rights of guarantee claims against the seller. The guarantee covers material and labour during the period of the guarantee, which is defined by the Revox Sales Partners in the individual countries that make up the EU.

In all countries, the guarantee services offered by the Revox Sales Agent are over and above the statutory regulations. They are only valid in the country of purchase. Proof of purchase from an authorised Revox Partner must be produced to make a claim on the guarantee.

The guarantee is made null and void in the case of incorrect intervention measures or non-professionally executed repairs.

This also applies particularly to the Revox Entertainment System if the actual functional level has been circumvented

and settings in the operating system or in the basic system configuration have been modified. Loading any further software of any type also causes an immediate loss of rights under the guarantee.

First contact

Various connections have to be made before setting up your M117 for the first time.

Video transfer

The best picture quality for the transfer of video data from the Revox Entertainment System to your picture display device is offered by the HDMI connection. This supports a resolution of up to 1920 x 1080 (Full HD), assuming that your picture display device also supports this resolution.

The M117 also has a VGA and DVI-D video output. Both offer a reduced resolution in comparison to the HDMI.

It is only possible to operate one video output concurrently at the M117. The parallel operation of video outputs is expressly not supported.

Both the HDMI and the DVI-D outputs are HDCP compatible.

The factory-set resolution of the M117 is 1024 x 768. With this setting, practically all picture display devices available on the market can be used with the M117 in such a way that a picture will be displayed. You can set the optimum

resolution in the M117 under Settings/Display.

If the M117 stops displaying pictures, you can press the Home button 🏠 on the remote control for 10 seconds and then press the "1" button on the remote control to switch back to the 1024 x 768 resolution.

We recommend that the TV is turned on when starting up the M117 for the first time.

Audio transfer

You can set up the audio connection between the M117 and your audio amplifier in three different ways. These have to be selected in the M117 Settings menu in the Audio section.

You have the options

- Analogue
- Digital optical
- HDMI

These days, many AV Receivers already have an HDMI input that can also evaluate the digital audio signals on the HDMI interface. Often however, the HDMI cable is fed direct to a picture display device or the AV receiver doesn't have an HDMI interface. In this case, you should use the optical digital output on the M117. If you have just got a straight stereo amplifier, connect the analogue front output on the M117 with your amplifier.

Internet

There is an RJ45 LAN connection on the rear of the M117. Connect this socket to your IT network with a network cable. Revox recommends always connecting the M117 to the network using a LAN because, as a rule, this type of connection is more reliable than a WLAN connection and also has a broader bandwidth.

TV connection

In order to achieve the full functional scope, you should connect two independent satellite connections to the TV Tuner card in the M117. If you only have one cable, this must be connected to Tuner 1. When operating with only 1 tuner, the M117 is limited in many areas when it comes to recording TV programmes.

Power cable

Only use the power cable supplied with the unit to connect your M117 to the mains supply.

Remote control

The remote control supplied with the M117 is designed for simple and fast operation of the Revox Entertainment System.

Wireless keyboard

Optionally, the M117 can also be operated using a wireless keyboard. You can connect the Revox wireless keyboard using a USB receiver plugged into one of the USB sockets on the rear of the unit.

Unit front panel

As you approach the glass front panel, the button illumination is switched on when you are about 1 cm away from the panel, in order to identify their position on what appears ostensibly to be just a black glass panel. The area of the panel to the left of the CD slot has the highest sensitivity.

Power touch key

The M117 is switched on and off with a short press on the ⌞Power⌟ key.

The M117 takes about 20 seconds to boot up and the display of the carousel Home Menu indicates that it is ready for operation. Do not press any button on the remote control or any connected wireless keyboard during the boot-up procedure.

The ⌞Power⌟ and ⌞Disc⌟ buttons light up when the unit is ready. The labelling for the front USB connection is also illuminated.

Disc touch key

A short tap on the ⌞Disc⌟ button will cause any CD/DVD in the drive to be ejected.

Front USB connection

The front USB connection allows you to connect a USB data stick, in order either to transfer data from the stick to the M117 or vice versa.

DVD/CD Feed slot

The M117 has a high-quality DVD drive with slot-loader function, i.e. it pulls the disk in automatically as soon as more than 2/3 of the disc has been inserted into the feed slot.

Standby LED display

A blue LED indicates that the Revox Entertainment System is in standby mode. This display goes out as soon as the M117 is started through the Power button.

If the M117 goes into standby mode, the display buttons continue to light up for a short time, in order to be able to switch the unit back on again quickly.

Unit rear panel

There are a lot of connections on the rear panel of the Revox Entertainment System, which are described in the following.

Power socket

The supplied power cable should be plugged into the power socket. The power supply unit is designed for voltages between 110 and 240 VAC at frequencies from 50Hk to 60Hz. Any other voltages can cause damage to the Revox Entertainment System.
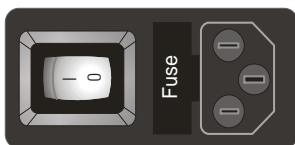
The M117 can be separated permanently from the mains using the power switch. The power switch must be set to position 1 to operate the unit.

The M117 must always be separated from the mains if the main fuse has to be changed. To do this, pull out the mains plug.

Tuner and CI slot

The Revox Entertainment System is equipped with a DVB-S2 Twin Tuner. In order to be able to make full use of the functions offered by the system, you need two SAT connections from your satellite dish that can make different transponders available to you.

Further functions can be offered at a later date through the "Optional" field. At the time of writing this Operating Manual, no final decision has been taken as to whether this connection will be made available.

A CAM module can be connected through the Revox Entertainment System CI Slot 1 for inserting a decryption card, in order to be able to watch corresponding programmes.

The CI Slot 2 is planned to be able to use a further CAM module with the M117 at some time in the future. In order to use this option, it can be necessary to swap the electronics out of the M117.

Audio/Video/Network

Connections to picture display devices, audio amplifier and the IT network are made through the bottom left connection panel.
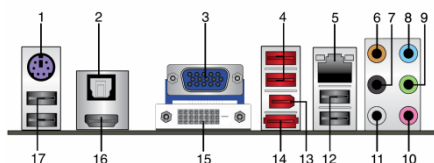
1　PS/2 connection

Connection for a PS/2 keyboard

2　Optical audio output

Optical TOS Link audio output. Connect your multi-channel amplifier to this output if you want to make use of multi-channel output in the case of Surround signals.
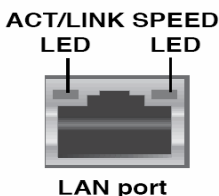
3　VGA output

Connect your picture display device to the M117 VGA output if it doesn't support the HDMI Standard digital formats.

4/12/17 Twin USB 2.0

These USB connections support the USB 2.0 Standard.

5   LAN RJ45 connection

This connection allows a one gigabit connection to a LAN network.

Status of the LEDs

ACT/Link LED

Off	– No connection
Orange	– Connected
Flashing	– Data traffic

Speed LED

Off	– 10 MBit/s
Orange	– 100 MBit/s
Green	– 1 GBit/s

8 Analogue audio input

This input is not supported in the M117.

6/7/9/11   Analogue audio outputs

These outputs are supported depending on the audio settings made in the M117. Output 9 is defined for the front speaker, as the factory setting.

The outputs are assigned as follows:

6   Center/Subwoofer
7   Rear speakers
9   Front speaker
11 Side speakers

9   Analogue audio output

Use this audio output if you want to use a stereo amplifier without a digital audio input.

10 Microphone connection

This connection is not supported by the M117.

13 IEEE 1394a

This connection offers a high-speed connection to audio/video devices, external storage or also to mobile devices.

14 eSATA

External eSata storage can be connected through this port.

15 DVI-D Video output

This connection is designed for DVI-D-compatible devices and supports the HDCP protocol.

16 HDMI Video output

Connect the Revox Entertainment System to a picture display device through the HDMI output. This connection supports the HDCP protocol.

Revox interfaces

The Revox Entertainment System offers three further connections on the top left of the rear panel. The M-Link USB is intended for a later integration of the M117 into a Revox Multiroom System and is not designed for the connection of external drives or other USB devices.

Further Revox devices can be connected through the M-Link socket at a later date. The M117 can be connected to the Re:system M51 or the Re:system M100 using this connection. Then, through the Revox Bus system, the M117 sources are displayed on the Re:system device display and can be selected directly.

External infrared receivers from the Re:connect M204 series can be connected to the IR Link socket. If a Revox Entertainment System is concealed-installed, it can be operated over this interface, using the IR remote control. If an external IR receiver is connected, the M117's integrated IR receiver is deactivated.

Please note that the jumper on the M204 needs to be set to 5V for installation with the M117. Please find further details in the owner's manual of the M204.

Remote control

The M117 remote control was designed specially to meet the requirements of the Revox Entertainment System.

Basic operation

The complete control of the M117 can be carried out using the Arrow buttons $\uparrow$, $\downarrow$, $\rightarrow$ and $\leftarrow$, the $\boxed{\text{OK}}$ button, the Back button $\boxed{\leftrightarrow}$ and the Menu button $\boxed{\equiv}$.

All further buttons are just there to provide fast and intuitive operating convenience.

The infrared remote control sends your commands to the IR receiver located in the glass front panel of the M117. Optionally, you can also connect an external Re:connect M204 IR receiver to the M117's rear panel. In order to avoid duplication of commands, the front IR receiver is automatically deactivated if an external IR receiver is deployed.

As well as operating the individual functional areas of the Revox Entertainment System, the remote control can also be adapted to many different televisions through an integrated database, so that the basic functions - on/off, video input selection or TV volume control - can also be carried out for many televisions available on the market.

The code table for the most commonly used models and brands is included in the Appendix to this Operating Manual.

Television models that can be intelligently controlled through the Re:connect products M200 and M203 are shown **bold**, and in *italics* in the tables.

Changing the batteries

If the batteries in the remote control get weaker, as indicated by a shorter operational range, they can be replaced easily. To do this, remove the battery compartment cover on the back of the remote control and ease the batteries out using the tip of ballpoint pen at the positions shown in red. Insert the new batteries making sure that the polarity is correct. Both batteries should always be exchanged at the same time.
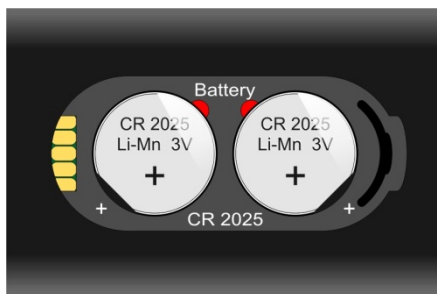
Rear view: M117 Remote control

Replacement batteries: **2 x CR2025 / 3V**

Disposal of the batteries

The batteries initially supplied with the remote control do not contain any harmful substances such as cadmium, lead or mercury. Discharged batteries may not be disposed of with the normal household rubbish. You can dispose of old batteries free of charge at corresponding collection points found in many shops. You will also find a container for old batteries at your specialist dealer.

Function display through LEDs

M117 Mode:

The LED behind the Power button lights up red when operating the M117's functional areas – TV Tuner, Radio, Movies, DVD, Music, Pictures and Internet.

TV Mode

The remote control's IR code is switched over to allow control of a television in TV mode - not to be confused with operating the M117's TV Tuner. The LED flashes green to confirm that the switch has been made.
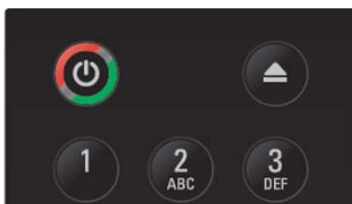
The LED lights up as long as a button is pressed and/or when an IR code is sent. The exception to this is the remote control programming mode.
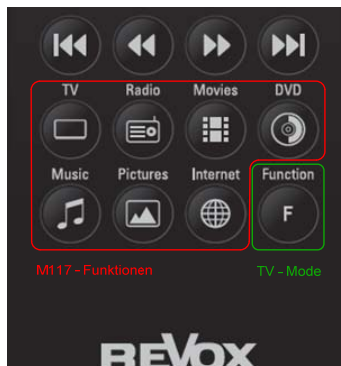
Function buttons in general

There are several buttons on the remote control that function irrespective of the Revox Entertainment System source that is currently being controlled. Please note that the following descriptions do not apply if the remote control is in TV mode.

These include the Power button ⏻, which toggles between the M117's operational state and its standby mode.

Using the Eject button ⏏, a disc that is in the DVD drive is ejected and can be removed from the M117.

Pressing the Home button ⌂ returns you simply and quickly from all menu levels to the Home menu, where you can then choose a new source from the carousel display.

Following a uniform principle, you can operate the system from all areas of the M117 with the Arrow buttons ←, →, ↑, ↓, the OK button, the Back button ↵ and the Menu button ▤ .

The Select button ☑ selects entries from the archives. The Delete button 🗑 deletes individual entries or multiple entries previously selected with the Select button.

Currently, the Mode button does not have any function with the M117.

You can control the M117 volume across all sources with the Volume buttons 🔇, 🔉 and 🔊 .

The direct selection buttons facilitate fast access to the different functional areas of the M117.

▭	TV
⌗	Movies archive
🖴	Radio
🎵	Music archive
🖼	Pictures archive
🌐	Internet
💿	DVD playback

TV function buttons

The following buttons are also available within the TV application:

🔊	Audio format switching
🎞	Picture format switching
EPG	Display of the Timeline EPG
TXT	Display of Teletext
◼	Picture-in-picture mode

CH	Last channel
i	Additional information
PG↑ PG↓	Programme change
●	Start recording
▶	Play
II	Activate Timeshift
■	Stop Timeshift/recording
◄◄ ►►	30 second skip
◄◄ ►►	Zoom

Movies archive function buttons

In addition to the general applications, the following buttons are available within the Movies archive:

🔊	Audio format switching
🎞	Picture format switching
i	Detail information
▶	Play
II	Pause
■	Stop
◄◄ ►►	Skip to the next movie in a play list
◄◄ ►►	Fast forward/Fast reverse

Music archive function buttons

In addition to the general applications, the following buttons are available within the music archive:

| i | Detail information |

| ▶ | Play |

| II | Pause |

| ■ | Stop |

| ● | Start recording a CD |

| ◄◄▶▶| | Skip to the next track in a play list |

| ◄◄ ▶▶ | Fast forward/Fast reverse |

Pictures archive function buttons

In addition to the general applications, the following buttons are available within the pictures archive:

| i | Detail information |

| ▶ | Play |

| II | Pause |

| ■ | Stop |

| ◄◄ ▶▶| | Skip to next picture |

| ◄◄ ▶▶ | Rotate picture |

| PG↑ PG↓ | Zoom picture |

Controlling TV devices

You can switch the function mode of the remote control using the Function button ⌷F⌷ in order to allow you to operate a television.

You will find details of how to program for your personal television in the TV programming chapter.

Remote control overview

Power On / Power Off M117	Eject CD/DVD
Keypad for input of numbers and text	
Switch audio options	Switch video options
Return to Home Menu	Select Mode option
Return	Navigation buttons
Confirmation (Ok)	Delete
Auswahltaste (Select)	Select Menu
Select EPG	Toggle between 2 channels
Call/end Teletext	Picture in Picture Mode
	Info
Volume up/down	Program / Zoom / Track – up/down
	Mute
Play	Pause
Record	Stop
	Search forwards/backwards
Skip backwards	Skip forwards
Go to M117 TV	Go to M117 DVD Playback
Go to M117 Radio	Go to M117 Movie archive
Go to M117 Music archive	Control of TV from database
Go to M117 Pictures archive	Go to M117 Internet Browser

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Home menu

As a rule, all the functions of the Revox Entertainment System are started from the Home menu. The Home menu is laid out as a carousel that can be controlled with the remote control navigation buttons.

The carousel is turned using the ⬅ and ➡ buttons until the required function is at the front position. The selected source (function) is then activated using the OK button.

In its base configuration, the M117 offers the following sources:

- TV, for viewing and recording television programmes
- Movies, for managing the Movies archive
- Radio, for listening to Internet radio
- Music, for managing the music archive
- Pictures, for managing the pictures archive
- Internet, for browsing the World Wide Web

Using the Home button 🏠 you can jump directly back to the carousel from practically any menu and then make another selection.

If a function in the Revox Entertainment System should lead to an inconsistency, the application jumps back to the Home menu and reinitialises itself.

Direct selection buttons

Using the direct selection buttons, you can jump directly to a source from most submenus. The Revox M117 remote control offers the source direct selection buttons for this purpose.

The following direct selection buttons are available:

▭	TV
▦	Movies archive
▤	Radio
♪	Music archive
▲	Pictures archive
⊕	Internet
◎	CD/DVD playback

Using these source buttons allows you to jump quickly to another source without having to navigate over the Home menu (carousel).

Alternatively, you can return to the Home menu with the Back button ↩. Depending on your current position within the menu structure, you may have to press the Back ↩ button several times.

Standby mode

As long as the power switch on the rear of the unit is switched on, the Revox Entertainment System is always working, as it has to be capable of being booted up quickly to handle any scheduled recording of television programmes. A blue status LED indicates that the Revox Entertainment System is in standby mode. The M117 can be booted up from standby or put into standby using the Power button ⏻.

The M117 can also be completely separated from the mains power through a power switch on the rear of the unit.

Settings menu

Many functions are available from the Home page with the Menu button ▤.

This menu offers 6 selection options.

- Playback with sub-menu
- Switch off
- File manager
- System information
- Settings
- Help

Playback

A further menu opens when you select this menu item:

With the three selection options you can jump to the current Play list (play music), play a CD/DVD that is in the disc drive or eject a CD/DVD from the disc drive.

Switch off

Choosing this option puts the Revox Entertainment System into standby. The M117 can wake itself up from this state to execute programmed recordings of television programmes. You can also trigger this function with the ⏻ button on the remote control.

When switching the M117 off, the system checks whether so doing would conflict with another process and if a recording or a Timeshift recording is taking place, a query dialogue appears in another window where you can confirm whether you actually want to switch off or not. You make your choice in this window using the arrow buttons and then confirm your selection with the OK button.
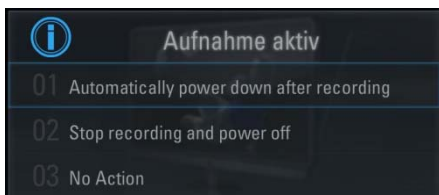
The "Switch off automatically after recording" option switches the M117 to standby once the recording is complete.

The "Cancel recording and switch off" option puts the M117 into standby immediately. This cancels any recording that is going on at the time.

Selecting the option "No action" returns you to the previous menu and you can continue to operate the M117 as usual.

File manager

You can display the individual contents from the Video, Music and Pictures archives and from a CD/DVD if one is in the disc drive, using the File manager. External storage media can also be displayed using the File manager.

With the File manager View, you are at the operating system level and you can see how the individual files are stored. All other Views just give you the information that a file is present, which is usually enough for normal operation, but not the file's location.
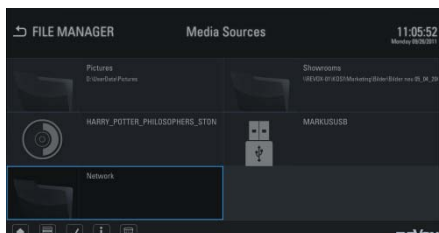
You navigate within the File manager using the arrow buttons and the [OK] button. Using the Select button, you can select individual or multiple files and edit them.

Further functions can be called through the Menu [▤] button.
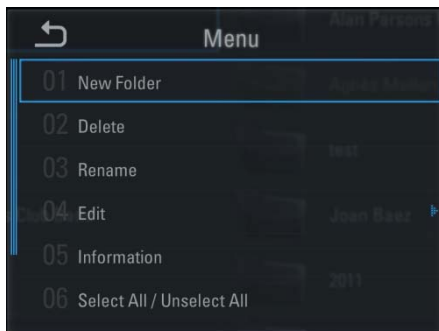
You can create new folders, delete your selection (which also affects external storage media), rename folders and/or files, display file details and using the "Edit" option, you can also execute the Copy, Move and Paste functions. The key combinations CTRL + C (Copy), CTRL + V (Paste) and CTRL + X (Move) are also supported for these three functions.

System information

The System information menu item offers an overview of certain basic information such as:

- Total capacity of the M117
- Used storage space
- Free storage space
- Number of videos
- Number of audio tracks
- Number of pictures
- Product name
- Product serial number
- Current software version of the Revox Entertainment System.

You can scroll in this menu using the [↑] and [↓] navigation buttons. You return to the Home menu with the [↵] button.

Settings

The Revox Entertainment System is configured through the Settings menu. Many important parameters such as the television resolution or the audio output formats are defined here. You will find further information about this extensive topic in the "Settings" chapter.

Help

You can display the M117 Operating Manual in PDF format on the M117 through the "Help" option. The Help function is context-sensitive so that it opens at the place relevant to the position where you called the function from.

You navigate through the Operating Manual using the arrow buttons and return to the previous menu with the [↵] Back button.

General settings

The basic configuration of the Revox Entertainment System is done through the Settings menu. As a rule, these settings only have to be made once.

You can branch directly to the System settings from the Main menu and from the archive menus. Tap on the Menu button ▤ and then select the menu item "Settings" from the available options.

The Revox Entertainment System offers the following entries in the basic configuration:

- System
- Display
- Audio
- Network
- TV
- Radio
- Movies
- Music
- Pictures
- Internet

Operating the menu

You navigate to the desired entry with the arrow buttons. The currently selected entry is highlighted by a blue border. A selection is confirmed with the ⏺OK button so that an entry can be made using arrow buttons or a keyboard. A text entry can only be made if there is a cursor flashing in the blue-highlighted field. When the input is complete, this is confirmed by pressing the OK button

again. You can leave the menu level at any time with the Back button ↩.

System

In System settings, you can define the system language, the country where the M117 is located, the date and time, a screen saver, a switch-off timer and settings for the front display panel.

Currently, German and English are available as system languages. Further languages will shortly be made available through software updates.

Please note that a change to the system language is essentially effective immediately. If an application is running in the background, e.g. the television application making a recording, the language in this area will only be changed after a restart.

If you want to make a change, highlight the Language area and confirm your selection with the OK button. Select your choice of language with the ↓, ↑ arrow buttons and confirm this with the OK button. You return to the selection column with the ← arrow button.

Proceed in the same way to select your country of installation. This selection offers you a pre-programmed station list for your country in the TV area. This list is based on the stations that are to be found on Astra 19.2 E.

You can set the date and time through the next menu item. Highlight the corresponding checkbox with the arrow buttons, confirm your choice with the `OK` button and modify the entry with the arrow buttons or the number keypad `0-9` on the remote control. When the input is complete, confirm your setting with the `OK` button.

Language	Time:		
Country	11	8	39
Date/Time			
Screen Saver	Date:		
Power Off Timer	26	9	2011
Front Display			
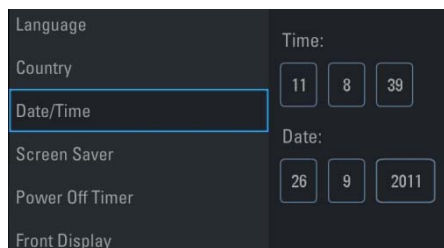
Through the "Screen saver" option, you can define whether and after what timeout a screen saver should be activated to protect your television from the burn-in effect. The time selection defines the timeout after the last button operation or the last mouse click until the screen saver should be started. The screen saver is cancelled again immediately by pressing on a button. The screen saver is not activated while a movie is being shown or during a television programme.

Using the switch-off timer, you can define when the Revox Entertainment System should automatically be switched to hibernation. "Never" means that the M117 is always operational except when it is manually switched off. The switch-off time defines the period of time during which no activities are carried out.

Activities are:

- Music playback
- Movie playback
- Television recording and programmes
- Any button action, any remote control action and any mouse click
- Audio or video stream from the hard disc

In exceptional cases, the switch-off timer can nevertheless be active during long recordings.

Before the unit is actually switched off, an information window is displayed for an appropriate length of time. If a button is pressed while this information window is displayed, the switch-off timer is cancelled and the system continues to run.

The last option in the general settings allows you to define the light strength of the front buttons and the sensitivity of the proximity sensor.

The Brightness entry controls the brightness of the buttons and the USB icons on the front panel. Using the "Auto dim" menu item, the front lighting can be set so that the button lighting is dimmed, in order, for example, to prevent unwanted light sources impacting on home cinema presentations.

The M117 has a proximity sensor. As you approach the unit, the operating element backlighting is activated, even without

touching the panel. The "Sensitivity" setting allows you to set the sensitivity of the proximity sensor's reaction level.

Display settings

You configure the matching up of the Revox Entertainment System with your picture display device, which as a rule, is a television or a projector. Normally there is only one option available under video output. If several options are available, you should select the one that matches your hardware connection.

It can happen that a new video connection is not recognised immediately, particularly if the picture display device was not switched on when booting the M117 up during the initial commissioning or if a new cable is plugged in while the unit is in operation. In this case, we recommend restarting the M117. While booting up, it can happen that the M117 carries out a restart itself, in order to store the new display parameters permanently. Do not interrupt this process until the carousel is displayed permanently.

You define the required picture output resolution through the Picture resolution menu item. We recommend using the setting for the native resolution of the television or projector. The scaling is then carried out in the Revox Entertainment System and the best possible picture quality can be ensured. The factory setting is 1024 x 768 as this setting is supported by most televisions. In this way, the user interface display on

most picture display devices doesn't fill the entire screen at the factory setting.

Pressing the Home button 🏠 for 10 seconds and then pressing "1" switches the resolution back to 1024 x 768, even without any screen display. This emergency switching option was implemented in order to ensure that a display could be restored, if a resolution had been selected that the connected picture display device did not support. The switching process takes a few seconds.

You can set the output frequency to meet the requirements of your television, through the "Refresh rate" menu item. You should only set the parameter if there are display problems with picture reproduction at a specific frequency. Normally, this parameter is set automatically between the picture display device and the M117.

You can only set the Picture size and Colour space parameters in the case of an HDMI connection.

With Picture size, you can set the M117 display so that the whole screen is filled. Normally, this function should not be necessary. If however a setting has been made in your picture display device under the option Picture size or also under Overscan, this "Overscan" can be corrected again with the M117. Ideally, "Overscan" should be switched off at the television.

With Colour space, you can choose between RGB and YCrCb.

Audio settings

You match the audio output of your M117 with your amplifier through the Audio setting menu. The M117 offers three audio output options: analogue, digital optical or HDMI. Make sure that the entry made through this menu item matches the actual cabling.

If you have chosen "Analogue" as the "Audio output" option, the Speaker configuration menu item gives you the possibility of defining the number of speakers used. This setting affects the activation of the analogue audio outputs (see the "Unit rear panel" chapter).

The factory setting is Stereo. This results in the M117's audio signal being sent to both the front speakers. With Quadrophony you add the rear speakers, with 5.1 additionally the Center and Subwoofer and with 7.1, also the Side speakers.

You can choose PCM or Bitstream with the "Audio output" selection. If your amplifier cannot decode digital audio formats, e.g. dts and Dolby Digital, you have to select the PCM option. If you decide for Bitstream, volume control is done exclusively through the amplifier and not through the M117. This means that it is no longer possible to control the volume through the M117 remote control.

Under Audio formats, you should select all the formats that your amplifier supports. If for example, your amplifier does not support the high-resolution audio formats Dolby, True HD or dts HD,

these entries should not be selected in the M117 as otherwise there will not be any audio output.

Network settings

You connect the Revox Entertainment System into an IT network through this menu item. You define the designation that is used to identify the Revox Entertainment System in the network through the Device name input. The factory setting for this parameter is M117 followed by the serial number, e.g. M117-12345. This ensures that the name is not duplicated in the network. You can also define the Workgroup from your IT network in the Device name area. The predefined setting is "Workgroup". We recommend that the M117 should operate in the same Workgroup as the other devices in your network. This significantly increases the speed when identifying and searching for other network components.

Through the IP Address/DHCP selection, you define whether the M117 should get its IP address by DHCP from your router (Revox recommends using this setting) or whether you want to assign a static IP address. If necessary, please refer to your System Administrator on this point. You can also read out the M117's IP address in this menu. Using this address, you can access the M117's data levels from external computers. You will find further information about this topic in the "File access" chapter.

A UPnP server is installed on the M117. This UPnP server is deactivated when the unit leaves our factory. If you want the M117 to be visible to other devices in the network, the UPnP server should be activated by setting the appropriate parameter.

Advice for customers who use a Revox Multimedia module: The "UPnP-AV Server" option must be activated so that the M117 is recognised by the Multimedia module. If the UPnP server is activated, M117 music can be played in each room of a Revox Multiroom System through the Multimedia module.

Television settings

A station list is predefined based on the country selection made through the General menu item. If you want to carry out a new station search, you can execute this through the first entry using the search assistant. You can also define your desired satellite and other relevant parameters - see "Station search" chapter in the TV section.

The M117 has two tuners. If, for whatever reason, it is only possible to connect one tuner, the cable must be connected to Tuner 1. This is the lower of the two connections and can be identified by the engraving in the metal. You also have to inform the system that only one tuner is connected so that no conflict situations arise with recordings or so that no recordings get missed. You set the corresponding parameter if two tuners are connected (factory setting) or unset it if only one tuner is used.

The Recording format parameter defines what format television recordings will be stored in on your M117. The options are "Only audio", "Program stream" (recommended by Revox) and "Transport stream". The Transport stream records additional information, which as a rule is not required. Please note that HD recording will always be arranged in "Transport stream".

The Pre- and Post- recording times define how many minutes before the actual programme that recording should start and how many minutes it should continue for after the programme has ended. The factory settings are 1 minute before and 5 minutes after.

These two time values can be changed to any value in order to give more security that the programme will be recorded in its entirety. Please note however, that the longer the times, the more memory storage is required and the greater the danger of overlaps with following recordings.

Independently of these settings, you can enter individual start and finish times for each recording in order to give you additional security in the case of programmes that overrun or where the end is not fixed, e.g. with sports events.

In the recordings folder you see as factory default the folder "Videos" which is on the M117's local disc.

Further external storage media can be connected to a M117. If external disc drives have been connected (see the "Managing media sources" chapter), this selection is extended and recordings can also be stored on external discs. In this case, you can select where your recordings should be stored.

If you are not able to use the Revox M117 Dual Tuner because only one SAT cable is available, it is important that this cable is connected to Tuner 1.

Note: Revox strongly recommends the connection of external disc drives. Particularly if you want to store unrecoverable data on the M117, you should always have a backup copy stored at a different location. It is also possible to configure external memory storage as a RAID network, which gives you more data security. If necessary, please refer to your specialist dealer or Network Administrator on this point.

Radio settings

Revox accesses the Internet radio services of TuneIn with the M117. You can register free of charge on TuneIn's website – www.tunein.com – and create your personal favourite list.

Enter the registration data in the available Radio setting fields.

Movie settings

You define important parameters for movie playback under the videos settings.

The "Video sources" option gives you the option of integrating external storage media and to select movies from the external storage in the M117 database and then to view these as a stream from the external storage medium.

You can add as many external sources as you like here. You should give a lot of thought to which sources it makes sense to integrate. In particular, mobile sources that have a highly dynamic content represent a challenge.

The "Managing media sources" chapter includes an example of how an external folder can be integrated.

If the videos from the M117 memory are not shown smoothly this may be because the refresh rate between the picture display device and the M117 is not correctly matched. In this case, please set the corresponding parameter. The factory setting where the parameter is not set allows more freedom if the picture display device supports an automatic switching of the refresh rate.

Through the parameters Disk menu language, Audio language and Subtitle language, you can predefine the preferred language when playing DVDs, assuming that the selected language is also available on the DVD.

Music settings

As with the video settings, you can define source and storage location settings in the music settings.

You can add external music sources as described in the "Managing media sources" chapter.

Taking local copyright regulations into account, you can copy music with the M117 and store it onto internal or external discs. You will find details about the copying process in the "Recording a CD" chapter.
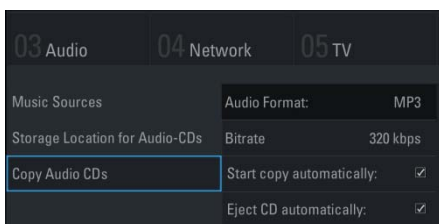
The user is exclusively responsible for complying with the regional copyright legislation.

If you want to copy music onto an external storage medium, you first have to create the path under Music sources. When you have done this, this memory location then appears in the list and can be selected accordingly.
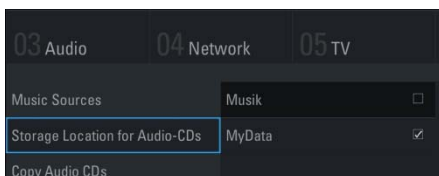
You define how a recording should be done in the "Copying audio CDs" menu item.

If you select "Copy CDs automatically", a CD is copied to a defined storage location automatically when it is inserted into the CD drive, without any further confirmation being required.

If the "Automatically eject CD" option is activated, the CD is automatically ejected from the drive once the recording is complete.

You can select from various recording options with Quality and Bitrate. Here you have to find the best solution for yourself as a compromise between audio quality and memory usage.

The factory setting of MP3 and a Bitrate of 320 kbps gives you a format that is widely used and that is supported by many playback devices, both mobile and stationary.

Picture settings

As with video and music settings, external media sources can be used to import pictures. You will find details about this in the "Managing media sources" chapter.

Through the Slideshow option, you can define the standard switching time between two pictures to be used during a presentation.
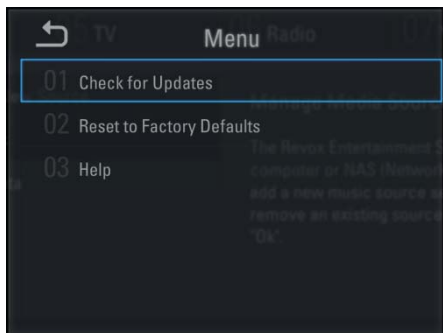
Internet settings

Under Internet settings, you can define three different types of starting pages:

- Speed Dial page
- Default starting page
- Last page

Additionally you can define an individual zoom factor.

Extended settings

Press the Menu button 🔲 on the settings pages again in order to get to the Extended settings.

The menu gives you the option to make a manual search for updates for your M117.

You can also return the M117 to its factory settings in the menu.

You can also call this function with the remote control if the M117 has been so incorrectly configured that it is no longer possible to display anything onscreen. To do this, press and hold the Home button 🏠 on the remote control for 10 seconds, followed by the "0" button from the number keypad.

The system does not create any confirmation window as it may not be possible to display this if the screen configuration were wrong.

Your data is not lost by resetting to factory settings. However, the defined network connections are lost with the result that to start with, any data on external storage media is not visible following the reset.

Advice on settings

After changes are made to the settings, they are normally effective immediately.

However, they are only stored permanently following a correctly executed shutdown.

If the M117 is separated from the mains through the power switch or if it has to be shut down following a system conflict, it can happen that the changes have to be made again.

TV application

A significant component of the Revox Entertainment System is the TV application. You can start the TV application using the TV direct select button ☐ or through the carousel. It takes a few seconds the first time it is activated after starting the M117, until the application has started completely.

The Revox Entertainment System has a Dual DVB S2 Tuner, which is connected with a CI slot. The dual tuner allows television programmes from two different transponders to be watched. This means that you can watch two different programmes at the same time using the PiP (picture-in-picture) mode. Of course it also possible to record two stations at the same time or to watch one while recording another. Recorded movies are stored in the M117's Video folder.

The M117 is pre-programmed with a station list. This is defined based on countries and is selected by the country setting. The station list can be adapted to meet individual requirements. Please refer to the "Station search" chapter for more information.

Basic operation

Normally, after calling the TV application the last station to have been used is displayed. In this respect, any recordings that have been made are also taken into account. You have many options when it comes to selecting a new station. You can scroll up and down the Favourites list using the Programme buttons $\boxed{\text{PG}\downarrow}$, $\boxed{\text{PG}\uparrow}$ on the remote control. Alternatively, you can select the desired station through the number keypad $\boxed{0\text{-}9}$. In this case, you simply enter the number of the desired station. After entering the first digit, you then have a certain length of time within which you can enter one or more further digits, in order to be able to call a station with a two or three digit memory position number. If no further digit is entered within the defined timeout, the number that you have entered up to that point is applied.

You can adjust the volume to your particular requirements using the volume control buttons $\boxed{\blacktriangleleft+}$, $\boxed{\blacktriangleleft}$, $\boxed{\blacktriangleleft-}$. Depending on the configuration that you are operating the M117 in, it can be more sensible to control the volume through the amplifier and not through the M117. Here, the audio setting parameters also have to be taken into account.

Occasionally, when closing the TV application, you may have to press the Back button $\boxed{↵}$ a second time.

Using the EPGs

The M117 has three different EPGs (Electronic Programme Guides). The content of all three is identical. Depending on the situation or on your particular preference, the different displays facilitate quick and intuitive operation of the TV application.

The M117 offers a Mini EPG, a station list and a timeline. Additionally, the M117 offers a station EPG that can be called from the station list EPG.

Not all stations transmit an EPG. In such cases, the text "No EPG data available" is displayed or the field just remains empty.

The EPG data is only available on the M117 if the station has been active for a short time. If necessary, you can fill the EPG fields with content again by selecting the station briefly.

Mini EPG

The Mini EPG is ideal for making a quick station selection. The Mini EPG is a semi-transparent display that is located in the lower part of the screen, overlaying the current station picture. Picture and sound continue while the Mini EPG is displayed, meaning that there is almost no interruption to the current programme. You activate the Mini EPG with the arrow buttons ⬅, ➡ or the OK button and you can actively close the display with the Back button ⮐. After a timeout of 30 seconds during which no button is pressed, the Mini EPG display is closed automatically.
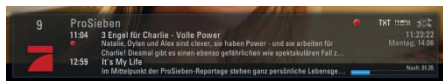
An example of the Mini EPG with a recording in progress. The red dot in front of the programme indicates that this programme is being recorded. The red dot to the top right of the Mini EPG

indicates that at least one recording is active in the system.

The Mini EPG gives you a lot of information. The most important information are the details about the programme that is currently being broadcast and the progress bar indicating how long the programme has been running. The following programme is also shown. You can use the arrow buttons on your remote control to navigate to other programmes (⬅, ➡) or to other time points (⬆, ⬇). In this way, you can find out which programmes are running on other channels or at other times, without interrupting the current programme. If you want to switch to another station, press the OK button on your remote control and the TV application switches to the newly selected station. The switchover can take a few seconds, depending on the station, in particular if the transmission of the newly selected station is encrypted.

If switching stations would impact on a current recording or timeshift recording, a window is opened advising you what the effect of the station change would be. Select the desired option with the arrow buttons ⬅ or ➡ and confirm your selection with the OK button.
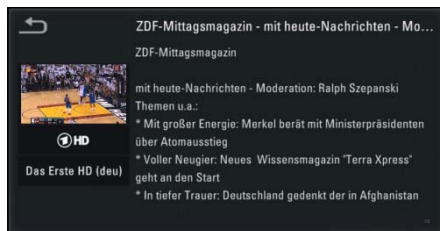
Station list EPG

Another EPG view is the Station list. This display fills the whole screen and is divided up into three areas. On the left hand side, the current station continues to be shown with picture and sound, together with some additional information. The middle section of the screen shows you all the stations from the Favourites list in a scrollable format and the righthand column shows you the individual programmes of the station that is highlighted in the Favourites list.
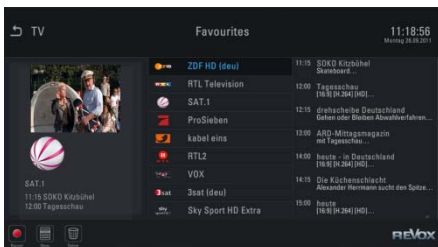
You call the Station list from the currently running television programme with the arrow buttons ⬇, ⬆ and close the display with the Back button ↩. Alternatively, after a defined timeout during which no button is pressed, the Station list EPG display is closed automatically.

You navigate within the Station list using the arrow buttons. Pressing the ⟨OK⟩ button while on a particular programme shows additional information about the selected programme in an additional window. The display can be spread over several pages depending on the amount of information available. You scroll to these extra pages using the arrow buttons ⬇, ⬆ . You can close this detail information window again using the Back button ↩.

The current programme continues to run in the mini screen on the lefthand side, even when this additional information window is opened.

You can also set up recording within the Station list or if required delete recordings that have already been set up. To do this, simply press the Record button ● while the programme to be recorded is selected. You will find details about the recording process in the "Making TV recordings" chapter.

Depending on the currently highlighted position within the Station list, you can call up further options through the Menu button ▤.
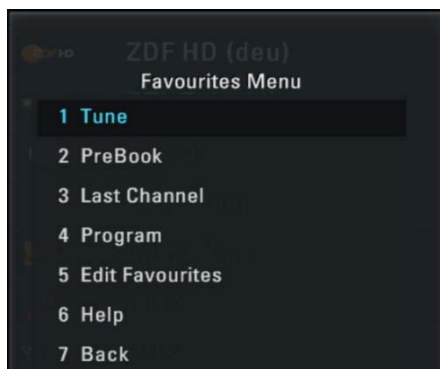
The number of items in this menu varies depending on the where it is called from. The "Switch" selection switches you to the view of the currently selected station. "Mark" sets a system reminder for the programme to be selected at transmission time, without recording it. The system switches to this programme automatically at the corresponding time. An entry is also made in the Timer display in the same way as if a recording were to be made. The option "Last station" switches you back to the last station to have been watched. You call the EPG of the currently selected station with the "Station EPG" option and see the currently running programmes in a further graphic. You can change the sort order of your Station list or add new stations with the "Favourites Editor".

Station EPG

Through the Station EPG, you see all the programmes of the previously selected station in a separate display.

Using the arrow buttons, you can scroll through the complete available preview of the EPG and, depending on the station, select a programme up to 10 days in advance.

Please note that the EPG data is made available by the stations free-of-charge. Only the transmitting station has any influence on the content, period, completeness and accuracy of these displays.

The Menu button is also available to you in the Station EPG. The options "Record", "Mark" and "Switch" were explained in the previous chapter. Future recordings can be handled very conveniently by pressing the Record button ⏺ .

The option "Now" switches you to a further EPG display that shows you the currently running programmes of the currently selected station.

Analogous to this display, the option "Next" calls a display showing the upcoming programmes of the currently selected station, i.e. those that have not yet started.

You can call a detail view about each individual programme from the Station EPG and/or from the "Now" and "Next" views using Details or the [OK] button. This view shows you extensive information about each programme.
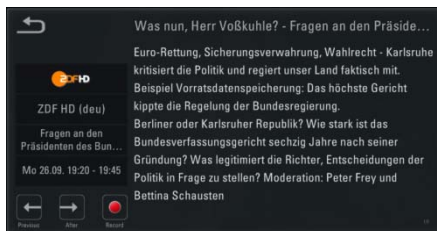
In this view you see the station, the date of the programme and further text that may extend over several pages, which

can be scrolled through with the arrow buttons ⬇, ⬆. You return to the previous view with the Back button ↩.

You can scroll through the programmes of the selected station with the arrow buttons ←, → without having to leave the Detail view. You can also select a programme to be recorded from here with the Record button ⏺. You will find further details in the "Making TV recordings" chapter.

You can also call the Detail view window whilst watching a television programme, using the Information button ⓘ on the remote control.

The "Find more" view is also very interesting. Highlight a programme in the Station EPG and then through Menu and "Find more", you can start a search for repetitions or further episodes of a series. In this way, you can find all available series episodes in the EPG. You can navigate in the "Find more" view in the same way as in the "Now" and "Next" views.

Timeline EPG

The M117 offers the Timeline EPG that enables you to compare which programmes are available from different stations at a given time. This EPG shows you the programmes from up to six stations over a time axis. The current time is highlighted with a blue line (Timeline).

The Timeline EPG is called through the EPG button on the remote control and closed again with the Back button ↩.

Within the display, you can highlight the different programmes using the arrow buttons and view additional information. As with the Station list, the OK button opens a window with additional information.
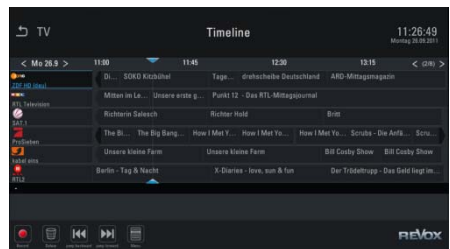
The Record button ⏺, the Skip buttons ⏮, ⏭ and the Menu button ☰ are available to you as well as the usual navigation buttons. Pressing the Record button ⏺ selects the highlighted programme (blue border) to be recorded. The Skip buttons scroll pagewise left or right in the Timeline. Pressing the Menu button ☰ opens up a whole host of further options to you, most of which have already been explained in the Station list EPG section.

"Record", "Mark" and "Switch" work as with the Station list EPG. The "Station view" is a new function. This view gives you a list of the programmes from the last station to have been highlighted. You return to the normal Timeline view through Menu and the option "Overview".

The "Find more" selection offers the same features as were already described with the Station list EPG.

The "Show favourites" option switches to the Favourite list view and from there you can switch back to the Station list view with the "Show station list" option.

The "Jump to" selection opens a further menu that contains the selection options:

- Now
- Noon (12:00)
- Afternoon (17:00)
- Evening (20:00)
- Late evening (22:00)

You can select between "Standard", "Less" and "More" under the "Display options" menu item. Depending on your choice, you see a correspondingly smaller or larger time axis on a Timeline display.

Note:
When operating the menus, you can also work with the number keypad and the numbers in front of a selection option.

Making TV recordings

With the Revox Entertainment System, you can record your favourite programmes or series and store these in the M117 Movies archive. You can watch the recordings again at a later date. Normally, you can skip advertisement breaks in the recordings and watch the recordings several times. Depending on the station and the programme, this functionality can be limited with the CI+

standard. Only the station can influence these limitations not the manufacturer of a product.

Direct recording

There a several options when it comes to recording a programme. The simplest and quickest method is direct recording. With this method, you just press the Record button ● on the remote control while the programme is running. Programmes from this station are now recorded until recording is stopped manually by pressing the Stop button ■. The system always asks for a confirmation when stopping a recording.

Perhaps when you start recording, you already know how long the recording should go on for. In this case, press the Record button ● again and the M117 offers you a selection menu with a number of options. Here for example, you can stop the recording at the end of the programme or after a specific length of time.

Instant Recording

1 Stop
2 Play
3 Delete
4 Stop after Current
5 Stop after Next
6 Stop in 15 Min.
7 Stop in 30 Min.
8 Stop in 45 Min.
9 Stop in 60 Min.
10 Stop in 90 Min.

Make your selection from the list of options. Recording will then automatically stop at the specified timepoint.

Only the option "Play", switches the M117 to playback mode while the programme continues to be recorded in the background. If you press the Stop button ▪ while in this mode, you can stop playback or the recording.

Please note, that if you just press the Record button ●, recording continues without stopping, usually until the available capacity on the disc has all been used up.

Programmed recordings

A more comfortable option is programmed recordings. Select the programme you want to record in the Station list or the Timeline EPG by highlighting it. Now pressing the Record button ● on the remote control opens

the recording dialogue window. The selection fields in this window are filled with the start and end times of the highlighted programme, taking any pre- and post- recording time settings into account, as well as the station name. You just need to press the OK button and the recording is programmed.

heute - in Deutschland		
Channel	< ZDF HD (deu)	>
Start	13 : 59	
End	14 : 20	
Date	26 . 09 . 2011	
□ Mo □ Tu □ We □ Th □ Fr □ Sa □ Su		
OK		

Alternatively, you can adjust the recording parameters to your particular requirements. In the case of a series for example, days of the week can be highlighted. Recordings will then continue to be made until the timer will be terminated manually.

You can also modify the times manually in the dialogue window. If you are not entirely sure when the end of the programme is, as for example in the case of the football cup final game, you can manually set an end time with a "safety margin" built in. This may result in the recording being too long but you will be sure of knowing who won the game.

You navigate within the dialogue window using the arrow buttons. You access a field with the OK button. When you have made your field value changes, you confirm this by pressing the OK button

again. The settings are applied once the dialogue window is closed with the [OK] button. If you quit the window with the Back button [⏎], the changes are not applied.

All programmed recordings are identified in the EPGs with a red dot. A red dot in the general display indicates that a recording is being carried out on a station at the time.

The M117 doesn't have to remain in operational mode for a programmed recording. Even if it is in standby, the M117 starts up punctually for an upcoming recording and taking the switch-off timer into account (see Basic settings), returns to hibernation once the recording is completed.

Recording cannot take place if the M117 is unplugged from the mains or switched off at the main switch.

Recording conflicts

The M117 can handle two recordings at the same time. Depending on the recording pre- and post- recording time settings, there can be overlaps in the case of following programmes. For this reason, you need to weigh up the settings for the pre- and post- recording time settings against your personal wishes. Too big a safety margin can lead to recording conflicts while choosing a time setting that is too short, could result in the start or end of the programme not being recorded correctly.

If you should identify a recording conflict or change your decision while a recording is running, you can also always stop a running recording with the Stop [■] button.

If only one recording is running, the system asks whether the recording should be stopped.

If two recordings are running, the system asks which of them should be stopped. Your choice has to be confirmed.
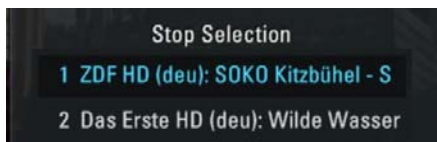
You operate both dialogue windows in the normal way with the arrow buttons, the [OK] button and the Back button [⏎].

Timeshift

As well as the actual recording function, the M117 also offers a Timeshift function. This differs from a direct recording in as

much as playback can be started again while the recording is still running while an actual recording can only be added to the Movies archive once the recording has finished. The Timeshift function is particularly helpful when there is an unplanned interruption during a programme, e.g. a telephone call.

You can activate the Timeshift function during a running programme with the Pause button ⏸. The programme is effectively paused and a freeze frame with the Pause icon in the top left corner of the screen identifies the Timeshift state.
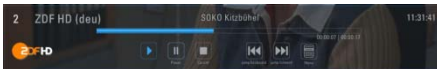
The programme can be restarted from the point where it had been paused, by pressing the Play button ▶ or by pressing the Pause button ⏸ again. A semi-transparent OSD shows in what position you are in comparison to where the actual transmission is at. Using the Skip buttons ⏮, ⏭ you can execute 30 second skips within the Timeshift memory, allowing you to skip over sections of the programme that you are not interested in. The actions are confirmed through an icon in the top left corner of the screen. The icon is displayed for about a second.

The status display is shown after pressing the Play button ▶, the Pause button ⏸ or the OK button. You can close the status display at any time with the Back button ↩. If not manually

closed, the status display disappears automatically after 30 seconds.

A Timeshift state is ended by pressing the Stop button ⏹. This action also has to be confirmed.
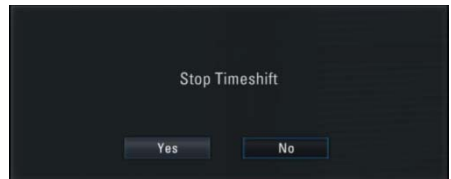
If the recording of a different programme is running at the same time as the Timeshift mode is activated, a dialogue window opens up after pressing the Stop button ⏹ for you to choose between stopping the Timeshift or stopping the recording.


You operate both dialogue windows in the normal way with the arrow buttons, the OK button and the Back button ↩.

If you want to change stations during a Timeshift recording, the Timeshift memory is deleted. You have to confirm through a dialogue window that this deletion has not been triggered accidentally.

A Timeshift recording can only be done on the current station. Irrespective of this, a recording can be made of a different station at the same time.

You can also watch a programme that is being recorded by selecting the programme in question. You can execute a Timeshift function during the recording without influencing the actual recording.

Both the Timeshift function and the Skip function within the Timeshift buffer are dependent on whether the station has released this function. Revox cannot influence this as it can be defined through the CI+ standard.

Conflict situations when selecting stations

Thanks to the twin-satellite tuner in the M117, you have the option of accessing two different transponders at the same time. As a result you always have the possibility of recording one programme while watching another one in realtime. You are not restricted when it comes to selecting the programme to watch and you can access all available stations. Please note however that many stations encrypt their transmissions and these can only be watched with a corresponding decryption card.

If you want to record a second programme this is basically also possible. However this then restricts the selection of stations that can be watched in realtime. Normally, several stations transmit on one transponder. If two programmes located on different transponders are recorded, only those programmes that are located on one of the active transponders can additionally be watched in realtime. If you now scroll

through the station list with the Mini EPG, the system automatically hides all those stations that are not transmitted on the selected transponders.

In the same way there are selection limitations with the PiP function if one programme is being recorded and another programme from another transponder is being watched in realtime. Only those stations that are on the two active transponders are available for the PiP function.

Please note that the M117 is designed for a maximum of two parallel recordings.

Teletext

The Teletext function can be called through the Teletext button on the remote control. You can select the desired page(s) within the range of available Teletext pages using the number keypad $\boxed{\text{0-9}}$. You can navigate from there using the arrow buttons. You quit Teletext mode by pressing the $\boxed{↵}$ button or by pressing the Teletext button again.

Normally, pressing the $\boxed{\text{OK}}$ button takes you to Teletext page 100.

Because of the high page access speed, the M117 does not offer you the coloured buttons that you may know from other Teletext systems.

Please note that not all stations offer Teletext.

PiP

Using the PiP (Picture-in-Picture) button ▣ on the remote control, you can watch two programmes at the same time.

Initially when you press the PiP button ▣, a copy of the current programme appears in a small window. Using the usual buttons to select, you can now watch a different programme in the main window without missing any of the details of the programme that is running in the small window. It takes a few seconds for the PiP to be created and you will need a little patience. Pressing the PiP button again ends the PiP mode.

The sound is always that from the programme being shown in the main window.

Last station

You can switch quickly between the current station and the last one to have been selected by pressing the ⟲CH button.

Picture format

Normally, the picture format is set up in the M117 Basic settings. Fundamentally, the picture is displayed as the TV station transmits it. If you don't like a particular format display, you can select from different formats using the Picture format button ⊞ on the remote control.

Audio formats

These days, many TV programmes are also transmitted with different audio formats. The default TV audio format is defined in the Audio basic settings. If you want to switch to a different audio format during a programme, you can open a dialogue window with the Audio format button ◂ on the remote control and make a selection in the normal way.

Please note that your system must be able to support the selected audio format (see Basic settings).

Extended menus

You can select the basic functions of the TV application with the remote control as described above. There are also many other menus, which are not needed on a day-to-day basis but which are

necessary during the initial installation or for product maintenance.

You can reach these extended menus by pressing the Menu button ▤ on the remote control while a programme is running.

You now see a list which you can scroll up and down using the arrow buttons ↓, ↑. A highlighted option can be selected by pressing the OK button.

Many of the menus have already been described in the previous sections and are not described again here. This includes the functions:

- Teletext
- Picture-in-picture
- Station list (corresponds to the Station list EPG)
- Station EPG
- Timeline

In addition you will find the following items in this menu structure:

- Information
- Timer
- Station search
- Favourites Editor
- CAM menu

Information menu

You will find detailed information about the current programme within the Information menu. Day-to-day, this information is not relevant for most users. For those who are interested, it gives data about audio and video

formats, bit rates, frame rates and much more.

Pressing the Menu button ▤ again returns you to the realtime picture. You can jump back to the TV application main selection menu with the Back button ↵.

Timer

In a similar way to the Station EPG and the related "Now, "Next" or "Find more" views, the Timer display shows all programmed recordings in one window.

A recording can be highlighted using the Arrow buttons ↓, ↑ and then by pressing the OK button, the recording window can be opened again and if necessary adapted to meet new requirements.

You can also delete programmed recordings quickly and easily in the Timer window. To do this, highlight a recording and delete it by pressing the Delete button 🗑.

Station search

The satellite providers update their station lists almost daily. New stations are added, existing stations are dropped or are moved to different transponders. So that you can maintain your station list to meet your requirements in the future, you can look for new stations using the Station search.

When you select the Station list menu, the system displays a window informing

you that if you continue, the current transmission, programmed recordings and the Timeshift function will be interrupted.

If you want to proceed, select "Yes" and confirm your choice with the [OK] button. The following dialogue window appears:
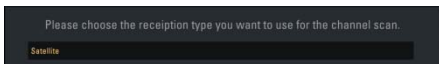
At the moment, you can only confirm this with the OK button. For the future, Revox also plans to offer DVB-C and DVB-T receivers. When that has been done, further selection criteria will be available at this point. After your confirmation, the system asks whether the television can receive transmissions from several satellites.
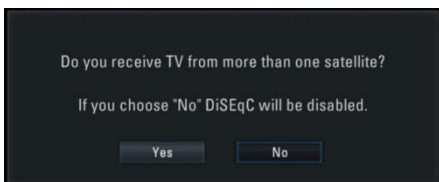
In principle, the procedure from this point is identical. Only the selection of the satellite when selecting DiSEqC (Digital Satellite Equipment Control) is defined for each individual LNB.

If you choose "Yes", a selection menu for up to 4 satellite positions is offered.

Highlight a position with the [↓], [↑] arrow buttons and confirm this with the [OK] button. A tick is shown in front of the position. Pressing the [OK] button again removes the tick.

Once you have highlighted all desired positions, press the [OK] button to select "Continue".

A display then opens where the corresponding satellite for each LNB can be selected. From this point, the station search is identical for individual systems or for DiSEqC systems with the one difference, that with a DiSEqC system, each LNB has to be assigned to a satellite.
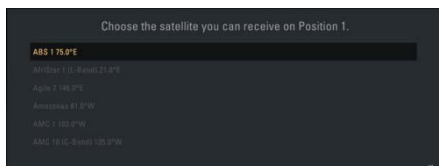
Select a satellite with the arrow buttons and confirm your choice with the [OK] button.

With DiSEqC systems, the text differs by the addition of "which is being received by the LNB at position x".

The following window appears after all satellites have been assigned to the LNBs:
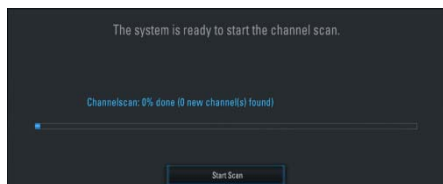
Searching is finally started with the "Start search" button. The search can take several minutes and a progress bar indicates how far it has got.

You can interrupt the search at any point. To do this, highlight the "Cancel" button and press the ⎸ OK ⎹ button on the remote control.

The last window is a status message with information about the number of available stations and how many stations have been added.

This window has to be confirmed with the "Close" button.
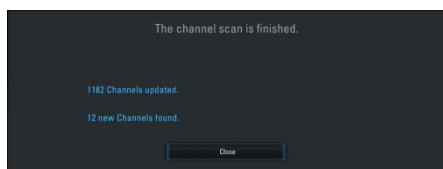
You can cancel the Search at any time with the Back ⎸↵⎹ button, whatever stage you are at. The "Cancel" button only has to be pressed first during the actual search.

Favourites Editor

The complete station list is very extensive and as a result of the large number of encrypted stations from different countries, it only makes sense

to use a relatively small selection of stations from the station list.

Using the Favourites Editor, you can create a selection from the entire station list that you can also sort according to your personal preferences.

The factory setting made by Revox is a country-specific preselection for the Astra 19.2° E satellite.

You open the Favourites Editor through the corresponding item in the TV application Main menu.

The lefthand column shows you all the stations found during the last station search. Entries with "----" at the beginning and the end of them cannot be highlighted and are only there to give a better overview.

Using the arrow buttons, highlight the desired station(s) from the list and select them with the ⎸ OK ⎹ or the Select button ⎸ ✓ ⎹. The colour changes from blue to light blue.

Once you have highlighted all the stations that you are interested in, move the highlighted entries to the righthand column with the [→] arrow button. Now, using the arrow buttons [↓], [↑], navigate to the position where you want to insert the stations highlighted in light blue. If, for example, you highlight position 15, the selected stations (indicated by the light-blue highlighting) will be inserted from position 16. The station that previously was at position 16 is shifted down the list the number of positions corresponding to the number of new stations that have been added to the list. The selected stations are now copied from the lefthand list to the Favourites list using the Add button [▶▶].

If you want to delete stations from the Favourites list, proceed as follows. Select the station(s) you want to remove from the Favourites list with the [OK] or the Select button [✓]. Once you have selected all the relevant stations (light-blue), press the Remove button [◀◀] and the selected stations are moved left to the Station list. The affected stations in the Favourites list now all move upwards to ensure that there are no gaps in the numbering of the stations in the list.

Stations are not lost through this process. They are either in the Station list (lefthand) or the Favourites list (righthand).

Within the EPGs (Mini EPG, Station list EPG and Timeline EPG), you only ever see the stations from the Favourites list.

You can switch from the lefthand to the righthand column with the [→] arrow button. Pressing the [→] arrow button again moves you to the Search field. There you can enter letters to make the search for a specific station easier. The search reduces the selection in the lefthand column. Once you have reduced the scope list sufficiently, you can switch back to the lefthand column with the arrow button and make your selection accordingly.

If you want to change your search criteria, you can move the cursor with the arrow buttons [←], [→] and modify the text accordingly. The delete button [▦] deletes the character to the left of the cursor.

You can change the positions of the stations within the Favourites list. To do this, select one or more stations by pressing the [✓] button.

The stations that are now shown in light-blue can be moved up or down with the Programme buttons [PG↑], [PG↓] . Once the stations are at the desired positions, deselect them with the [OK] or the Select button [✓]. Alternatively, you can return to the Favourites Editor with the Back button [↵]. The new station numbers are assigned when you quit the Editor.

CAM menu

There are two CI slots on the back of the M117 that can accept a CAM with a Smartcard to enable the viewing of transmissions from encrypted stations. Currently only CI Slot 1 is supported. For the CI Slot 2 Revox offers an optional CI module. Both CI Slots can work parallel. Please note that a configuration of the CAM can only take place in CI Slot 1.

A Conditional Access Module (CAM) is a product that can be inserted into a DVB receiver through a Common Interface slot. The only task of this module is to administer the exchange of keys between the Smartcard and the actual decoder hardware. To do this, the Smartcard has to be inserted in the CAM so that electronics located on the CAM can access the Smartcard.

Different CAMs are required depending on the Smartcard. Please refer to your specialist dealer on this point.

You can carry out certain settings for the deployed CA module through the CAM Menu. This window only has any content

if there is actually a CA module in the slot.

The name of the CA module is shown in the Status bar. The further menu items depend on the deployed CA module. Entries and settings have to be made in line with the CA Module Operating Manual.

You navigate using the arrow buttons and the [OK] button on the M117 remote control. You can return to the TV application Main menu with the Back button [↵].

Typically settings are menu items such as Information, Smartcard, Protection of minors and Settings.

Normally, Information gives you details about the installed firmware and miscellaneous details about the CA module.

Through the Smartcard entry, you can query details and authorisations relating to your Smartcard, which may be useful if you need service assistance from your provider.

Under the Protection of minors, you can define a PINcode that is then needed to allow subject matter with a certain German movie rating classification to be shown.

Under Settings, you can normally carry out functions relating to language selection, updates and often, you can carry out expert settings and factory-setting resets.

Movies archive

All movies that have been recorded with the Revox Entertainment System are archived in the Movies archive. Also, movies from external Movies archives can be integrated.

With the standard settings, it is not visible for the user whether the movies are stored on the M117's local disc or on other storage media in the network. Navigation is just done within the M117 Movies archive and this organises that the movie is played through the video output and also that it can be controlled if required.

To start with, the Movies archive is started through the carousel or the direct selection button on the remote control.

Views

The Movies archive has a clear navigation structure. You can navigate to different views depending on your preference. The M117 offers the following view options:

- Category
- Recently added
- Play lists
- File system

The standard view setting is the listing by category. With recordings from the TV application, data records are transmitted with the individual movies from the EPG made available by the TV stations. In the Category view, the M117 lists the movies in one of the standard categories such as Documentary and Information, Children, Feature, Music, Series, Sport and a few other categories. If no category is transmitted from the TV application, the movie is assigned to the "Unknown" category.
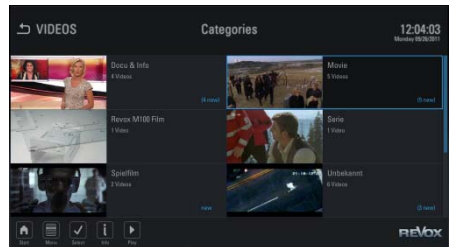
The view shows you the individual categories with the category designation and the number of movies that are stored under that category. The category picture is a picture taken from the list of movies within that category. The bottom corner of each select field shows the number of new movies that have not yet been viewed, if available. This display makes it easier to find new recordings.

A movie is classified as "new" if it has not yet been viewed or if it has been in the archive for less than 30 days. The parameter "new" is reset when the first of these criteria is no longer met. A movie is considered to have been seen and therefore is no longer "new" if playback has been started. The display is

updated each time the Movies archive is called.

You can search for a movie within the view using the arrow buttons. The blue border shows which category, which sub-menu or which movie you have selected. A scroll bar helps to estimate the scope of the entries.

A selection is confirmed with the OK button and either moves you to the next menu level or starts the movie if you are already at the movie level. You can move back a navigation level with the Back button ⏎.

The structure of the individual categories depends to a large extent on the stored content. In the case of series, there are further levels below the category. As a rule, these are the name of the series, the season within the series and the individual movies within the season. Within the Feature film category on the other hand, the list of movies is usually already visible at the second level. There can however be sub-menus in the case of movies with the same name.

If you want to organise an archive based on individual preferences, the entries can be modified with the Info button i. Please refer to the "Detail information" chapter.

Further view options can be called through the Menu button. Select the View option from the Menu and then make your selection from the various options:
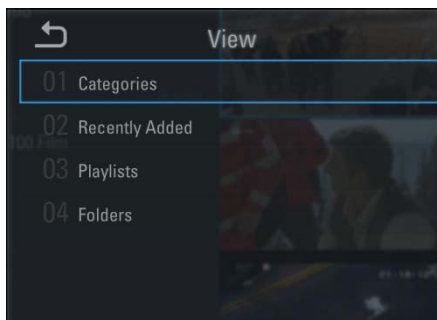
The complete overview of all movies can be found under the "Categories" view option.

All the movies in the archive can be found in chronological order in the "Recently added" area. In the case of large archives, this view enables you to find a movie that has been added in the last few days very quickly.

You can create your own movie collections using Playlists. If, for example, you want to create a collection of all Star Wars movies in a correspondingly named Playlist, you can then always find these movies very quickly, even with a very large archive.

The File system view shows you where the movies are actually located. This option is always useful when you know where a particular movie is stored, e.g. on a NAS drive.

Playing a movie

The quickest way of playing a movie is to select it in one of the views and then to start it with the OK or ▶ button. The movie starts to play straight away. If the

movie has not been played before on the M117, playback starts immediately. If the movie has been viewed before, a dialogue window opens to ask whether the movie should be continued from the last position.
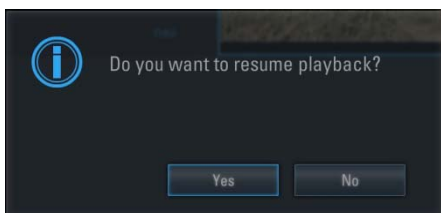
You navigate within this dialogue window using the arrow buttons and the OK button. If you select "No", the movie starts from the beginning.

The last position is stored for a period of 7 days. After this time, the movie is classified as not yet seen (not as new). In this case, the dialogue window does not appear and playback starts from the beginning of the movie.

The selected movie appears on the playback screen. An OSD is shown when the arrow buttons or the OK button is pressed, which displays status information about the movie together with the most important operating elements.

The standard command for displaying the OSD is to press the OK button.

In the case of some other buttons such as Play ▶, Stop ■ or Pause ‖, a confirmation icon appears in the top left corner of the screen for about a second.

A further OSD appears when changing the volume. All OSDs have different display durations and are closed again after a predefined timeout.

The progress bar can be switched off with the Back button ↩ or the OK button, if you don't want to wait for the automatic switch-off timeout.

Control options while playing movies

A number of control elements are available to you while a movie is being played.

Playback can be paused with the Pause button ‖ and then restarted by pressing the Pause button ‖ again or by pressing the Play button ▶. Pressing the Stop button ■ stops playback without any confirmation dialogue and the archive level where the movie was started from is shown again.

Using the Fast forward and Fast reverse buttons you can control the progress of the movie as required. Pressing the Fast forward button ⏩ once causes the movie to be played at double speed. This status is indicated by an icon with the additional information "x2" in the top left corner of the screen. Repeated pressings of the Fast forward button ⏩

can accelerate the movie up to 64 times the normal speed. Pressing the Play button ▶ at any time returns the movie to normal speed. Fast reverse works in the same way with the ◀◀ button. Fast reverse is also limited to 64 times normal speed.

Skip commands can be carried out using the arrow buttons ←, →, ↑ and ↓. The ← and → buttons create 20 second skips. The ↑ and ↓ buttons create 60 second skips. You can also press and hold these buttons and then monitor the progress of the time display (left of the progress bar) and the progress bar itself. With this ultra-fast playback method, it is no longer possible to follow the picture, which is shown distorted.

The Menu button ▤ is also available while a movie is playing. The following display appears:
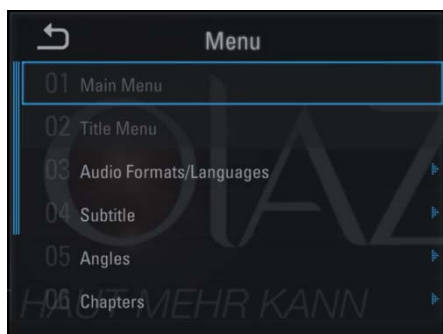
The Top menu and the Title menu are hidden and are only available while DVDs are being played.

The audio settings can be modified under Audio formats/Language, assuming the station offers this option for a movie.

The same applies for Subtitles, Viewing angle, Chapter and Extended subtitles. Normally, these options have no function in the case of recordings made from the television.

The settings branch to the General system settings.

The Skip buttons may not have the expected function when playing movies. A Skip command stops the movie and displays the archive. In a Movie playlist, a Skip command causes a skip to the next or previous movie in the current playlist.

Direct playing of DVDs

You can play DVDs directly with the Revox Entertainment System. If a DVD is inserted in the M117 DVD drive, the system recognises the DVD and opens a dialogue window where the DVD can be started.

Normally, the movie then starts to play directly. With some DVDs, the DVD menu is opened first, which you can navigate with the arrow buttons and the OK button on the remote control.

As when playing movies from the M117 Movies archive, pressing the [OK] button while playing a DVD opens a status display with the control options.

Alternatively, the DVD can be started through the Play menu. Open the menu with the Menu button [▤] from any system position except the Radio and Internet levels, select the Play option and then Play disc. If the DVD has been viewed before, a dialogue window opens to ask whether the movie should be continued from the last position. Confirm this window in the normal way.

Control options while playing DVDs

A number of control elements are available to you while a movie is being played. Apart from a few minor details, the control options are identical to those available when playing a movie from the Movies archive, in order to ensure uniform operation.

Playback can be paused with the Pause button [❚❚] and then restarted by pressing the Pause button [❚❚] again or by pressing the Play button [▶]. Pressing the Stop button [■] stops playback without any confirmation dialogue and the archive level where the movie was started from is shown again.

Using the Fast forward, Fast reverse and the Skip buttons you can control the progress of the movie as required. Pressing the Fast forward button [▶▶] once causes the movie to be played at double speed. This status is indicated by

an icon with the additional information "x2" in the top left corner of the screen. Repeated pressings of the Fast forward button [▶▶] can accelerate the movie up to 16 times the normal speed. Pressing the Play button [▶] at any time returns the movie to normal speed. Fast reverse works in the same way with the [◀◀] button.

Skip commands can be carried out using the arrow buttons [←], [→], [↑] and [↓]. The [←] and [→] buttons create 20 second skips. The [↑] and [↓] buttons create 60 second skips. You can also press and hold these buttons and then monitor the progress of the time display (left of the progress bar) and the progress bar itself. With this ultra-fast playback method, it is no longer possible to follow the picture, which is shown delayed.

You can open a menu with the Menu button [▤] while the DVD is playing.
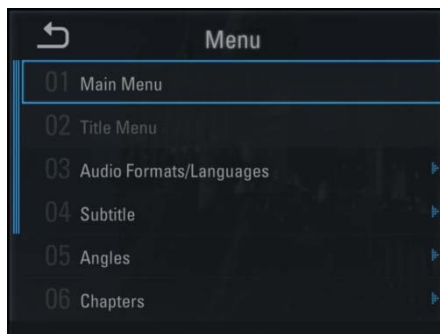
The Top menu option takes you to the DVD Start menu where you can make further settings. You navigate within the DVD menu using the arrow buttons and

the OK button. You can navigate the DVD Title menu in the same way. Not all DVDs support these menus. If the M117 identifies that the DVD does not support this menu, both entries are disabled.

Further settings can be made in the Audio formats/Language, Subtitles, Viewing angle and Chapter sub-menus. If the DVD doesn't offer any options within these menus, any inputs are ignored by the system.

Movie playlists

Playlists can be created within the Movies archive.

In this way, you can configure your Movies archive to your own personal preferences. One possible application of the Playlist function is to put all the episodes of a series into one playlist. You can then select the series through the Playlist view and start playback.

You control playback within the movie in the usual way. Additionally, the Skip commands ⏭ ⏮ are available, which then skip from movie to movie within the Playlist.

Creating a movie playlist

Normally, in order to create a movie playlist, you navigate through the Category view to those movies that you want to put into the playlist and highlight them with Select button ✓.

You will find further information about selecting entries in the "Selecting entries" chapter.

Once all the relevant movies have been highlighted, you can select the "Add to playlist" option from the menu.
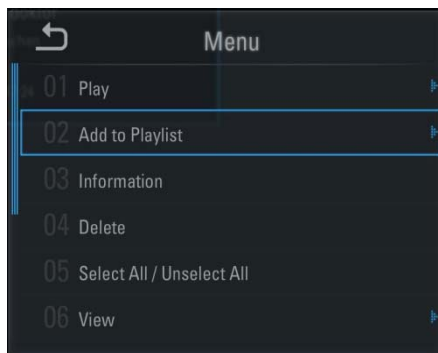
Here, you can select either to create a new playlist, which you can give a corresponding name or you can select an existing playlist that you want to add the selected movies to.
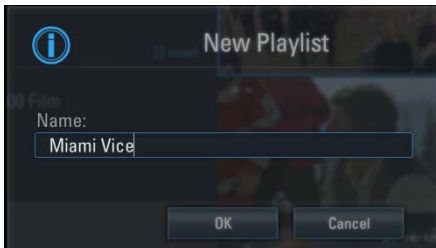
After this, you will find the new or extended playlists in the Playlist view and can access them quickly.

With the current software, the order of the movies within a playlist cannot be modified.

You can also delete movies from a playlist. A dialogue window opens where you have to confirm whether the deletion should be carried out or not. This process only deletes the entry from the playlist, not the movie itself.

If you want to delete the movie, this has to be done from another view.

Music archive

The Revox Entertainment System administers your music collection through the Music archive. Music can be selected with just a few button presses and using a clear operating structure.

It is not visible for the user whether the music is stored on the M117's local disc or on other storage media in the network. You simply navigate the music archive and the Revox Entertainment System plays the music through one of the audio outputs.

Initially, the Music archive is started through the carousel or the direct selection button 🎵.

In general terms, you can choose between two different areas within the Music application. One is the area for navigating the music archive; the other is for actually playing the music. Many of the menu items are identical in both areas. Others are adapted to the current needs.

Views

Music can be searched for and administered in the music archive through seven different views.

These are:

- Artist view
- Artist with album view
- Album view
- Genre view
- "Recently added" view
- Playlist view
- File system view

View - Artist with album

The default view is the Artist with album view. In this view, the artists are shown in alphabetical order. For each artist, there is information about how many albums and tracks they have stored in the music archive. These albums can be albums which only contain tracks from the artist in question or they can be albums, which contain at least one track by the artist in question, as with compilation albums for example.
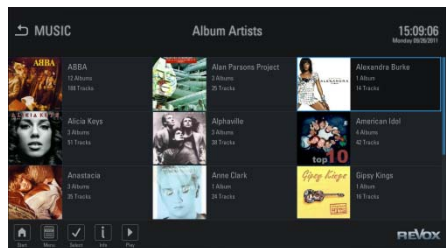
A scroll bar helps to estimate the scope of the archive.

An Album/Artist entry offers the following information:
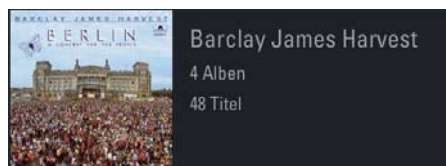
- The name of the artist
- The number of albums
- The number of tracks by the artist

Changing view

The selection menu can be displayed by pressing the Menu button ▤ on the remote control. Select the menu item "View" and then one of the seven different view types.
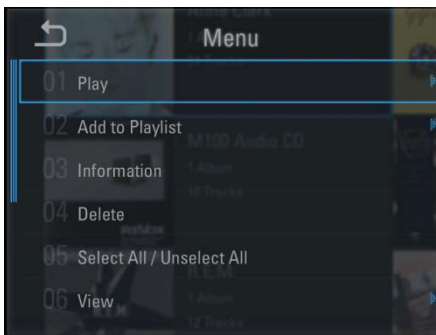
Navigate within the menu with the arrow buttons ⬆, ⬇, ➡ and ⬅ on the remote control and confirm your selection with the ⏎K button.

Return to the previous level with the ⬅ button or the Back button ↵.
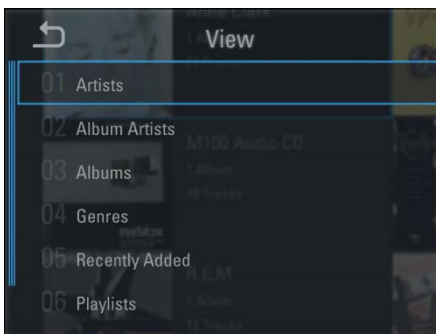
View - Artist

The Artists view only shows those albums where the artist in question is present on the complete album.
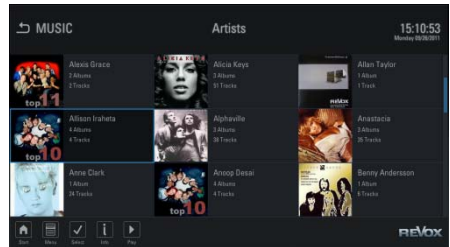
In principle, the display is very similar to the Artists with album view. Only the number of albums is reduced.

View - Albums

In the Albums view, all albums are shown in alphabetical order.
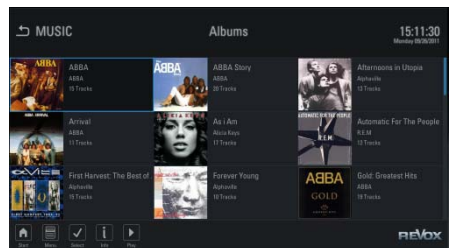
One entry gives the name of the album, the artists and the number of tracks on the album.

Double albums are usually shown as one album with incremental track numbers.

Essentially, a display is always dependent on how the album's metadata is set up and administered.

View - Genre

The Genre view offers you the possibility of searching based on a particular type of music.
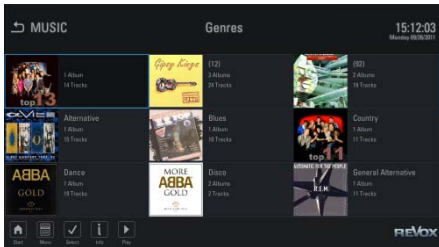
You see the following information in the display:

- Genre designation
- The number of albums
- The number of tracks on all the albums

The cover of the first album within the genre is used as the Genre cover.

View - "Recently added"

You have bought a new CD and added it to the Music archive. Now you would like to find this CD quickly. Select the "Recently added" view and there you will find all music that has been added in the last 30 days.

Within the archive, you can highlight all titles using the navigation buttons and then play them.
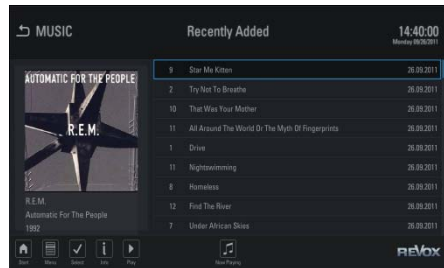
View - Playlist

This view shows you all your individual playlists that you can create quickly and simply from the various views.
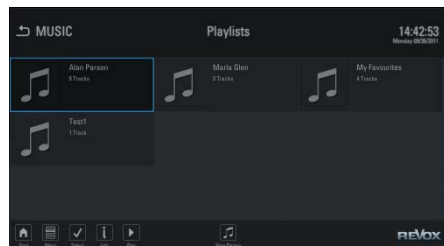
You see the following information in the display:

- The name you assigned to the playlist
- The number of tracks in the playlist

If music albums are not available because for example, the external storage medium is not connected or not switched on, the content is identified correspondingly by a cross contained within a circle.
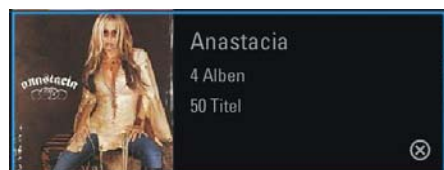
View - File system

While the other views connect all music archives from all network drives with each other, you can view, select and edit music in the individual music archives through the File system view.

The display is done using the same structure as how the data is stored on the hard discs.
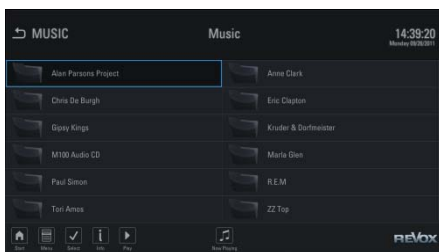
Within the File system view, you can very easily highlight and then copy, delete or move files and folders. You will find further information about this topic in the "File manager" chapter.

Music selection

You can navigate through the different archive views using the arrow buttons ↑, ↓, → and ←. The scrollbar and the blue border round the currently selected artist(s) visualise the status of the navigation. The OK button takes you to the next menu level while the Back button ↵ takes you to the previous menu level. This is different depending on the archive view. As the whole system works uniformly, only the navigation within the "Artist with album" view is explained here. Navigation to a

track works in the same way in all other views.
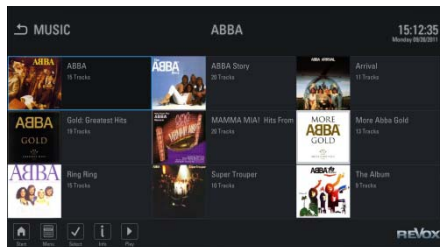
Then the desired album is selected and the display changes to the Album view.
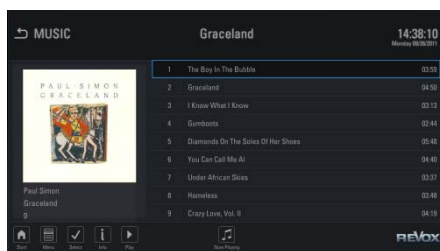
The ↓ and ↑ buttons are used within the Album view to select a track. The selected track is then started directly with the OK or the Play button ▶. The system then switches to the Play view, which is described in detail in a later chapter.

A scrollbar on the righthand side of the screen shows how many tracks are to follow. If no further interventions are made by the user, the album is played to the end, track for track, starting from the selected track. Once the album has finished playing, you have to make a further selection from the Music archive.

Music playback doesn't have to start from one track. It can be started from other levels:

- Playback of all the tracks of one artist
- Playback of a complete album
- Playback of a genre
- Playback of a playlist

To do this, highlight your desired entry and start playback by pressing the Play button ▶ on the remote control.

Text search

In most cases, text-based searching is very quick and easy in larger archives. In this case, a text can be input using the number keypad on the remote control (in the same way as with an SMS), or more conveniently by using a Revox wireless keyboard and confirmed with the OK button

Depending on the text that was entered, the blue highlighting either jumps directly to the text or if the text is not found, it jumps to the entry that follows it alphabetically.

Search function searching

You can search for part of a word in the menu using an extended search function. By entering "summer" for example, all tracks that contain the word "summer" will be displayed, irrespective of where in the title the word appears.

You will find details of this search method in the "Searching for entries" chapter.

Creating playlists

You can create an unlimited number of playlists from music tracks in the Music archive on the Revox Entertainment System. You can give individual names to the playlists and then later choose one of them to listen to through the Playlist view.

Then all tracks within the playlist are played one after the other.

Please note that the playlists themselves do not contain music. They just point to individual musical tracks. It only makes sense to include tracks in a playlist that are either on the M117's hard disc or are on other storage media that are permanently connected to the M117. Using music from a mobile device like a laptop for example, which is only connected to the network from time to time, means that the playlists don't play cleanly.

You can select music from any archive for inclusion in a playlist. You can include individual titles, complete albums or all the tracks from an artist into a playlist. To start with, highlight your selection(s) using the arrow buttons and then confirm your selection(s) with the Select button ✓. The selections are now shown in the display with a small tick next to them.

You will find details about the selection process in the "Selecting entries" chapter.

The selections can now be applied to a playlist. To do this, press the Menu

button ▤ on the remote control or elsewhere in the system.
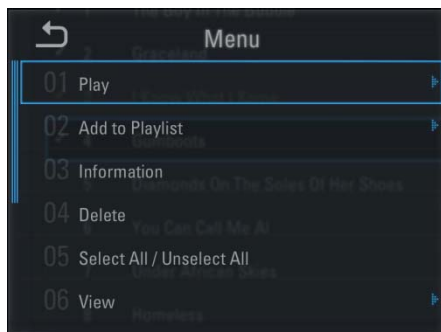
Highlight the second entry in this menu "Add to playlist" in the usual way. This opens a further window that displays the basic entry "New playlist" along with all existing playlists.
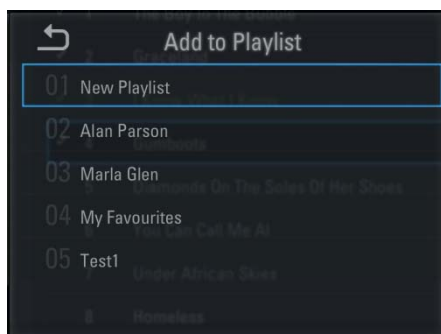
This dialogue window offers you the choice of adding the selections to an existing playlist or creating a new playlist. No more entries are needed if adding to an existing playlist.

If you want to create a new playlist, a dialogue window opens where you can define the name of your playlist.
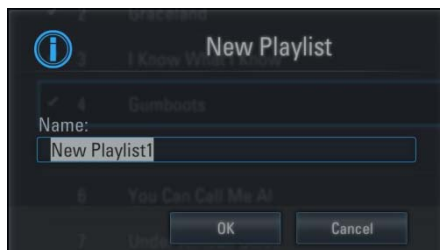
After this is done, you call your playlist directly from the Playlist view and start playback.

It is not yet possible with the current software to sort the playlists individually. It is however possible to activate a Shuffle function. You will find details about this in the "Playing music" chapter.

Recording a CD

You can copy audio CDs onto the M117's hard disc with the Revox Entertainment System. Please note that the M117 offers comprehensive options for creating a recording of audio CDs but the final responsibility for complying with the copyright requirements rests with you as customer. Normally, audio CDs are subject to a Copyright that controls what types of copies can be created and for what purpose.

Direct recording

The simplest and quickest method is direct recording. To do this, insert a CD into the M117's CD drive and wait until the dialogue window opens.

If you want to record the CD, select the second option and confirm your choice with the [OK] button. The other options are to close the dialogue window without carrying out any action or to play the CD without recording it.

The processing of the individual tracks is shown in the display while recording. Tracks that have already been processed are identified as "Imported". The progress bar relates to the track that is currently "being processed".

Once all tracks have been recorded, the CD is ejected and the system switches to the "Import audio CD" screen. From here, you can record further CDs or return to the Archive view by pressing the Back button [↵].

Importing audio CDs

As well as the direct recording, music can be imported from a CD through a menu. To do this, select the option "Import/Export" and then Import audio

CD. Or press the Record button [●] on the remote control.

If there is no audio CD in the M117's drive, you are requested to insert one.

The recording process then runs in the same way as with direct recording.

Cancel recording

You can end the recording process at any point. To do this, press either the Stop button [■] or the Back button [↵].

A dialogue window then opens where you have to confirm your intention to cancel the recording.

Playing music

After you have selected music from one of the archives and started playback with the Play button [▶], you can then start searching around in your archive for other music.

You can always switch to the "Currently playing" view while music is being played. To do this press the Menu button [▤] and then, by using the navigation buttons and the [OK] button, select the option "Play" and then "Currently playing" from the next level. Alternatively, you can switch to the "Currently playing" display using the Music button [♫] on the remote control or with a mouse click on the "Currently playing" icon in the view.

In order to differentiate between the navigation level and the play level, the picture of the album is shown on the left

in the Navigation view and on the right in the Play view. The display title also helps you to orientate yourself quickly.
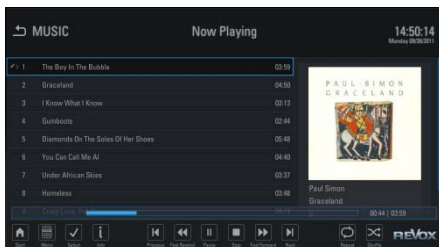
This screen shows you a progress bar relating to the current track and you can carry out control commands in the album with the following buttons

▶	Play / Pause
■	Stop
◀◀	Previous track
▶▶	Next track
◀◀	Fast reverse
▶▶	Fast forward
←	5 second reverse skip
→	5 second forward skip

The M117 audio output level can be controlled using the Volume buttons 🔊+, 🔊- or 🔇 on the remote control.

Essentially, the volume can be controlled through the M117 or through the amplifier, e.g. M100 or M51.

From the standpoint of audio quality, the best way is to control the volume through the amplifier and not through the M117.

You can send further commands to your Entertainment System through the GUI. You are already aware of the functions from the preceding chapters:

🏠	Back to the Main menu = Carousel selection
☰	Opens the Menu level
✓	Highlighting an entry
i	Information about a track

The Repeat and Shuffle functions can be called directly from the Play view with a mouse click.

🔁	Clicking on this icon starts the Repeat function.
🔁	If the Repeat function is active, the icon turns blue.
🔁	Clicking again activates the Repeat function on an individual title.
🔀	The Shuffle function is activated through this icon.
🔀	If the Shuffle function is active, the icon turns blue.

Using the remote control, you can activate and control these functions through the Menu ☰. Press the Menu button while playback is active and then select Repeat or Shuffle from the menu.
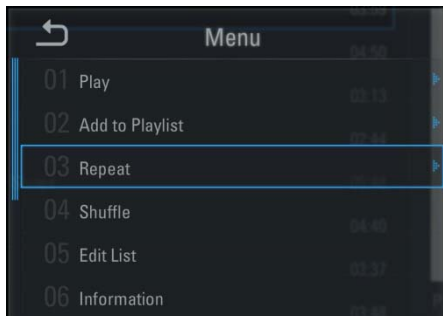
There are three options in the Repeat menu. The currently active option is shown by a white tick. As soon as the selection has been made, the icon in the Play view is shown in the corresponding colour.
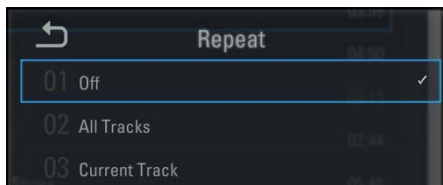
The Shuffle function can also be activated with the remote control in the same way.

Play modes

With the track that is currently being played, the M117 differentiates between two basic options.

Playing a track that was started from an archive with the Play button [▶] and playing tracks that were started from a selection, in combination with the Play button [▶].

Standard play mode

If you select a track from an archive, the entire album is shown in the current playlist and the album is played sequentially, starting from the track you selected. Once the end of the CD is reached, playback stops. This is the usual process when playing a CD.

Playlist play mode

Alternatively, you can select tracks from an album with the Select button [✓] and then start playback. In this way, a playlist is created. This can be extended through further entries. If Standard play mode is executed while a playlist is being played, the system asks whether the playlist should be stopped, in order to ensure that the current list is not accidentally overwritten.
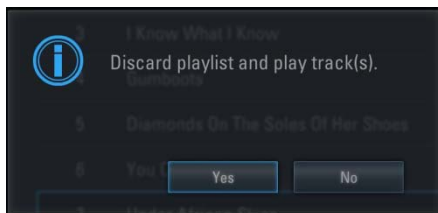
You can add tracks to a current playlist in a number of ways.

Essentially, one or more tracks must be selected with the Select button [✓]. If you are using a keyboard, the selection is made with the Space bar.

The selected tracks are added to the end of the playlist with the Play button [▶] or the [OK] button.

Alternatively, you can select the "Play as next" option through the Menu button ▤ and "Play". In this way, the selected tracks are added to the playlist after the track that is currently playing,

The "Play as last" option appends the selected title(s) to the end of the playlist.

Play menu

Further options are available to you through the Play menu selection:
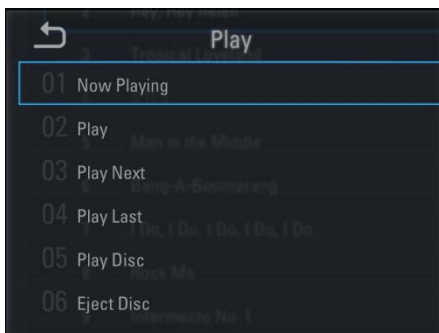
- Switch to the "Currently playing" view. This view shows you all the tracks from the current playlist. You can also switch directly to this view from the Music navigation menu with the Music button ♪.
- The "Play" option causes the system to start playing the currently selected track(s). You can execute this selection from the remote control with the Play button ▶. The track that is being currently played is stopped and the new selection is played.
- The "Play as next" selection causes the currently selected track(s) to be inserted after the track that is currently playing.
- The "Play as last" selection causes the currently selected track(s) to be inserted at the end of the playlist. This is what would happen with the music choice with a classical jukebox.
- The "Play disc" option causes the medium that is currently in the drive to be played. Please note that in this case, the Music archive is quit if there is a DVD in the drive.
- The "Eject disc" option causes the currently inserted CD/DVD to be ejected from the drive. This function can also be started from the unit front panel or from the remote control with the Eject button ⏏.

Radio

A further interesting component of the Revox Entertainment System is the integrated Internet radio. Revox uses the Internet radio service from TuneIn with the M117.

Currently, this element of the M117 is designed just for playing radio stations and podcasts.

You see some basic selection options on the start page. If you have created a user account on www.tunein.com and entered this under Settings/Radio in the M117, the "My Favourites" folder appears top left, where you can put together your own list of favourite radio stations.
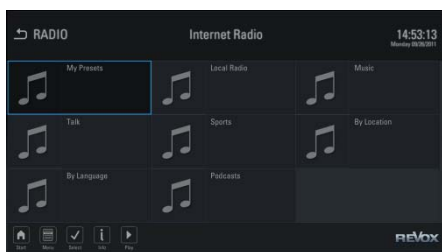
Within the window, you can navigate according to various criteria, using a uniform operating concept. The navigation point "Locations" offers an extensive possibility for searching by region and genre.

The other options also bring you quickly to the desired station.

You will find a very broad selection of different information services from the areas of sport, culture, business,

technology, entertainment and many other areas of interest under Podcasts.
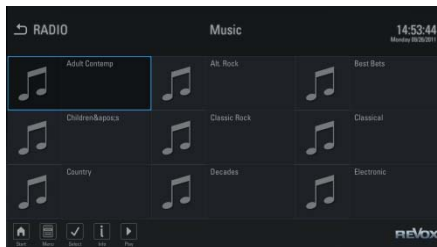
In order to start playing a station, highlight the station in question and press the Play button ▶. The station will start to play after a few seconds. The system causes a short interruption after the station has started to play.
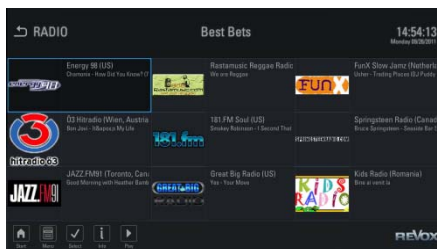
Please note that even with established stations, Internet radio doesn't guarantee interruption-free broadcasts. There can be many causes for interruptions. These can originate in the feed, on the path to your router or even in your local network.

Pictures archive

The Revox Entertainment System administers an existing collection of pictures through the Pictures archive. It is operated in the same way as the other archives.

It is not visible for the user whether the pictures are stored on the M117's local disc or on other storage media in the network. You simply navigate in your Pictures archive and the Revox Entertainment System displays your pictures on the picture display device.
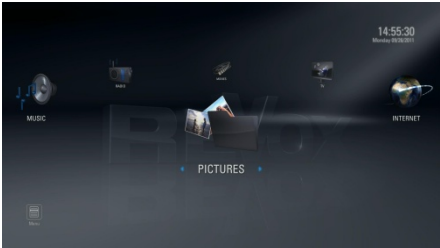
Initially, the Pictures archive is started through the carousel or the direct selection button ▲.

Within the Pictures archive, the default view shows you the pictures sorted chronologically. For this purpose, all pictures are sorted by year and month when they are imported.
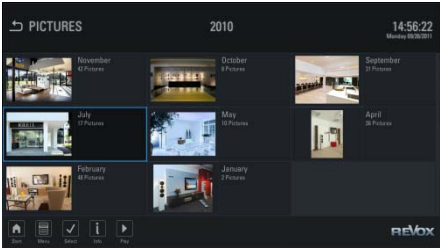
Other views offered by the M117 show the pictures by event, by album (similar to the movie and music playlists), by "Recently added" and as they are stored in the file system.
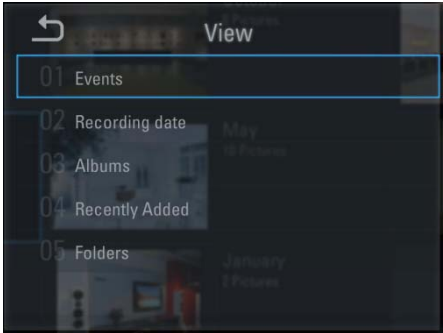
Within the Music archive, an album is an individual collection of pictures. You can for example, select those pictures that you really want to show for a presentation.

You navigate in the usual way in all views using the ↑ , ↓ , → and ← buttons. The OK button takes you to the next menu level while the Back button ↵ takes you to the previous menu level. This is different depending on the archive view.

Picture view

As a rule, you can start the picture show with the Play button ▶ within the different folders and views.

Viewing individual pictures

If you want to view an individual picture, navigate to it using the navigation buttons and press the OK button.

You return to the previous view with the Back button ⏎.

Presentation mode

If you want to run a presentation of several pictures, select a folder or an album and confirm the selection with the Play button ▶.

While the presentation is playing, you can set the transition time between two pictures using the number keypad [0-9]. The value entered represents the time until the next picture appears in seconds.

You can control the progress of a presentation any way you want using the Play ▶, Pause ❚❚, Stop ■ and Skip buttons ◄◄, ►►. The Skip buttons cause the presentation to jump directly to the next or the previous picture in the presentation.

Extended control commands

You can also execute the Skip function with the Arrow buttons ← and →. Using the Arrow buttons ↑, ↓ you can rotate the picture 90° to the left and right respectively.

You can zoom a picture in picture play mode using the Programme buttons [PG↓], [PG↑]. The zoom settings are then applied to the following pictures.

Creating an album

You can combine pictures together into albums using the Revox Entertainment System. The choice of pictures is down to your own personal preferences.

Use the Select button [✓] to select the pictures you want to include in an album.
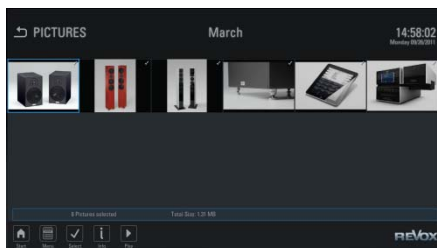
The pictures selected are identified by a white tick in the top right hand corner. The bottom line shows you how many pictures have been selected and how much memory space these pictures need.

You will find details of how to select individual pictures or complete folders in the "Selecting entries" chapter.

The next step is to open the Select menu by pressing the Menu button [≣] and then select the "Add to album" option.
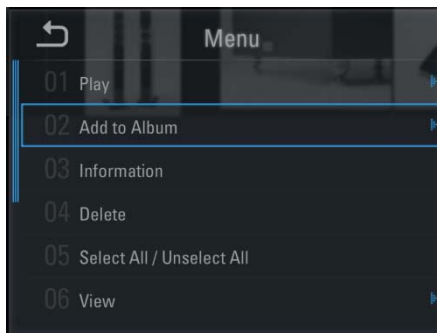
Select the "New album" option in the next window, in order to create a new

album and then enter a suitable name for it in the window that follows.

Alternatively, you can also add pictures to an existing album.

It is not possible to sort pictures within an album with the current software version.

Editing picture entries

As with the other archives, you adjust the entries for each picture to your particular requirements.

To do this press the Information button [i] on your remote control or select the "Information" option from the Menu [≣].

You can edit the following entries:

- Title
- Event
- Date
- Time
- Manufacturer
- Model
- Width
- Height

You will find further information about editing entries in the "Editing entries" chapter.

Additional information

Additional information can be shown while a picture is being displayed by pressing the [OK] button.

Three different information pages can be shown, which you can scroll through using the [OK] button:

- Picture number
- Storage path
- Storage path + EXIF information

Important advice:

A hard disc is used with the Revox Entertainment System. A hard disc includes mechanical parts, which can wear with use.

A hard disc can fail in such a way that the data on the hard disc cannot be retrieved.

Temperature is another important factor that influences the working life of a hard disc. For this reason, you should always make sure that there is sufficient air flow for your M117 and that the ventilation slots are not covered.

Particularly with pictures, Revox recommends that you back them up onto another storage medium. While music and movies can usually be bought again, memories held on pictures can be irretrievably lost if a hard disc fails completely.

Internet

With the Revox Entertainment System you can make visiting a website into a family experience. You open the integrated Internet browser through the carousel. Alternatively, you can open the Internet browser using the direct selection button ⊕ on the remote control.

You cannot control the Internet browser with the remote control that comes with the unit. You need a keyboard and a mouse. Revox offers an optional, wireless keyboard with an integrated touchpad. You can order this keyboard from your specialist dealer under the number 1.554.096.00.

After opening the Internet browser, you see a start page with the Favourites you have defined.
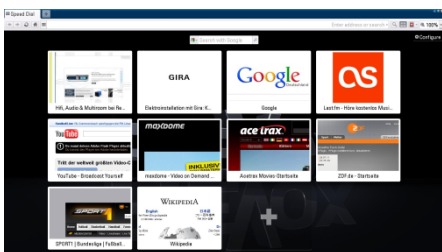
You can set this page up in line with your own personal preferences. Using the mouse, you can drag & drop the speed dial windows to move them around.

Further speed dial windows can be opened with the "+" character. A speed dial window can be deleted through the "x" character in the bottom right hand corner of the preview window.

Please note that no Flash pages can be displayed within the speed dial windows.

You can return to the speed dial view at any time by clicking on the speed dial view button with the 4 windows in the top right corner. This button toggles between the current view and the speed dial view.

The speed dial view is set up so that effectively, you can integrate as many windows into the speed dial view as you want. You can adjust the speed dial view to your particular display requirements through the configuration options.
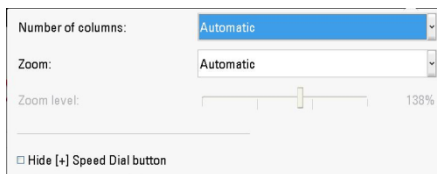
You define the number of columns you want through the Column count line. In this case, the website preview appears in a fixed width.

You can control the speed dial view enlargement factor in the Zoom line.

You can suppress the adding of any more pages in the speed dial view through the "Hide speed dial button" option.

Controlling the Internet browser

Operation within the Internet browser is down principally using the mouse and keyboard. You can scroll backwards and forwards through the last windows to have been visited with the speed dial buttons in the top left corner of the browser screen, update the displayed page and return to your start page by clicking on the house icon. You can define your start page through the M117 settings.
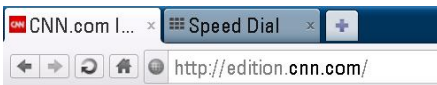
You enter the desired URL in the address bar. Please note that the browser only supports regular websites. Accessing the M117 data levels, FTP accesses and similar addresses are not allowed.

You can call up security settings on the visited website by clicking on the globe.

The arrow button at the end of the address bar opens up the history of the visited pages and by clicking on an entry from the history list, you can quickly call a previously visited page.

Tab display

As with most modern browsers, the M117 also offers tabs. Click on the "+" tab in the top line to open up an additional page.

You can switch easily between the opened tabs using the mouse.

A tab can be closed again by clicking on the "x" on the tab name field.

The speed dial page is shown if all tabs have been closed.

Creating bookmarks

You can create as many bookmarks as you want within the Internet browser.
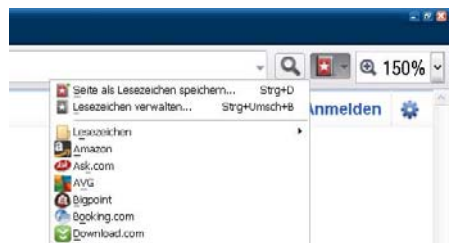
The quickest way to set a bookmark is to enter a URL in the browser address bar and call the corresponding site. Then an input screen is called through the "Save page as bookmark..." entry.

Enter the name with which the URL should be entered in the bookmark list.

Sub-folders can be created through the "New folder" option in order to allow you apply a topic-based structuring to your bookmarks. Here for example, you also have the possibility of creating a bookmark folder for each member of the family.

Editing bookmarks

You can manage your bookmarks through the "Organise bookmarks..." option.

All bookmarks and folders are displayed on one page. You can move the bookmarks with drag & drop. You can also use this method to change the order of your bookmarks if you want.

Using the "Add" button, you create new bookmarks, new folders and new categories within the bookmark folder.

Existing bookmarks can be opened with the "Open" option.

You can set the properties of the bookmark and further describe the individual properties of the bookmark through "Properties".

A highlighted bookmark can be deleted using the "Delete" button. The bookmark is deleted without any further confirmation.

Search function

Clicking on the Magnifying glass icon facilitates a quick and convenient text search within an HTML page. The text entered is highlighted in the page. You can jump from one search result to another with the arrow buttons.

The search bar is closed with the "Close" function.

Zoom function

You can use the Zoom function to enlarge the size of the text on the current website or to make the view easier to read if your screen only supports low resolutions.

Select a zoom factor from the menu or enter a zoom factor through the number keypad.

Please note that not all websites can be zoomed. This is particularly the case for example, if the page has been programmed in Flash.

Quitting the browser

You can quit the browser with the Back button ⤶ on your remote control or alternatively by clicking on the "x" on the top right corner of the browser window.

Limitations

In comparison to other Internet browsers, the functionality of the Internet browser on the Revox M117 has been deliberately restricted. Certain functions such as the downloading of files have been intentionally deactivated.

These limitations do not represent a defect in the function and have been made in order to safeguard the operational security of the M117.

General functions

This chapter contains information about several functions that are very similar across the different archives and for that reason are described in detail here just the once.

General control

Within the M117 you can control all the functions using the ⬆ , ⬇ , ➡ and ⬅ buttons, the OK button, the Back button ↩ and the Menu button 🗏 . These controls are the same across all the archives.

Normally, the currently highlighted entry has a blue border around it. Further functions principally affect the highlighted entry.

You are frequently confronted with dialogue windows where a decision has to be made.

Within such a window, you can move the highlighting with the arrow buttons and then confirm your selection with the OK button.

Volume control

The volume can be controlled in various ways. In many cases, the most convenient solution is to control the volume through the audio amplifier. If you decide to go with this method, you should always set the M117 volume controller to 100%, in order to get the best sound quality.

Another method is to control the volume in the M117. The Volume buttons 🔊+ , 🔊- on the remote control adjust the level of the M117's audio outputs.

Using the Mute button 🔇 , the audio output can be silenced with a single button-press. Pressing the mute button again reactivates the M117's audio output at the previously set volume level. Pressing one of the Volume buttons 🔊+ , 🔊- themselves also reactivates the audio output.

With some audio signals, e.g. pure digital playback (Bitstream) from a DVD, the M117's volume cannot be changed.

In order to balance out level differences between the individual sources, the volume is stored separately for each element. Please note that as a result of this, there can be volume jumps when changing from one element to another.

Detail information

You can view and edit the metadata for practically every piece of media content, irrespective of whether it is a movie, a music track or a picture. You call the information window with the Information button ⓘ or by selecting the "Display/Edit information" option in the Menu.
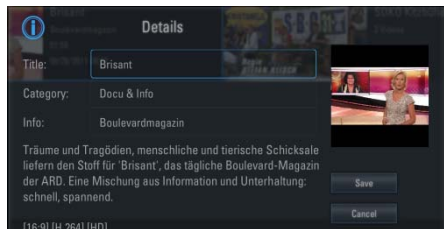
Within the information window, you will find the corresponding metadata entries, which vary from content to content but which are self-explanatory.

If you want to edit an entry, highlight it with the arrow buttons (blue border) and confirm your selection with the OK button. The text is now shown inverted and can be edited with a keyboard (optional accessory) or by using the number keypad on the remote control. Confirm the change with the OK button. You can then make changes in further fields by following the same process. Once you have made all the changes you want, these still have to be stored permanently with the Save function. Use the arrow buttons to move the highlighting to the Save button and confirm your choice with the OK button. If you want to discard your changes, move the highlighting to the Cancel button and confirm this with the OK button.

Selecting entries

In the Revox Entertainment System, multiple entries from an archive can be selected with the Select button ✓.
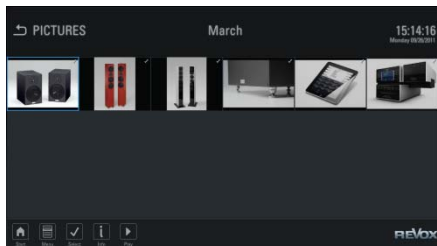
Highlight the desired entries with the arrow buttons and then press the Select button ✓.

Press and hold the Select button ✓ for about 2 seconds to highlight all the entries in a folder. In the same way, you can remove the highlighting from all selections by pressing and holding the Select button ✓ for about 2 seconds again.

This function can also be activated through the Menu and the "Select all/Cancel selection" option.

The number of highlighted (selected) elements and their total size are shown for information purposes in a status display.

As long as at least one entry is highlighted, any subsequent actions are executed on it/them. This can be functions such as adding to a play list or also deleting a selection. Please note that in this way, it is very easy to select the complete archive and then to delete it all with the next step, with only one confirmation dialogue.

Deleting entries

If you want to delete an entry from your database, you first have to select it through one of the views. Then press the Delete button [🗑] on the remote control and the element highlighted with the blue border or the highlighted folder is deleted. A dialogue window first opens where you have to confirm your intention to delete, in order to prevent accidental deletions.
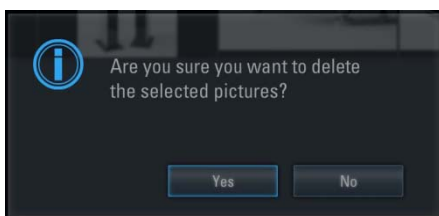
You can also select several entries across different folders. Highlight the entry or the folder and then press the Select button [✓]. After all the desired entries and/or folders have been highlighted, you can remove the corresponding selections with the Delete button [🗑]. Again, the delete process has to be confirmed.

Please note that it is not just the entry in the database that is deleted but also the file(s), irrespective of whether they are on the local hard disc or on an external storage medium.

Please also note that there is no Recycle bin function on the M117, which means that once the deletion is carried out, the data cannot be restored.

Searching for entries

In the case of extensive archives, a movie, music track or picture cannot always be found quickly and easily.

In the menu that can be called from the Movies, Music and Pictures archives, the Revox Entertainment System offers a simple but effective search function through the "Search" menu item.
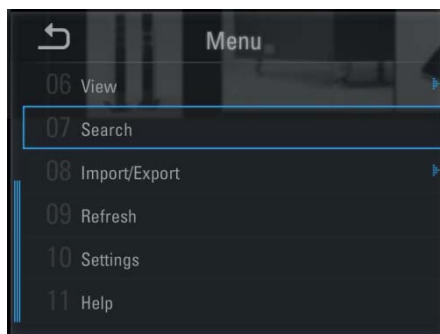
When the Search function is selected, the view changes to show a list containing all the contents from the corresponding archive. You can navigate in this list with the arrow buttons. A more efficient option however, is to make a text input through the keyboard or the number pad on the remote control
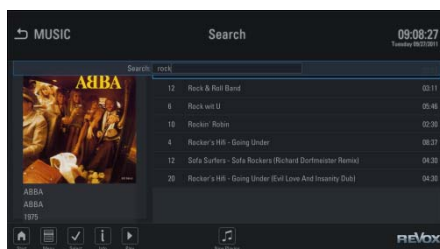
When you confirm your search text with the [OK] button, the system carries out a

full text search and then displays a list of all those entries that contain the entered text.
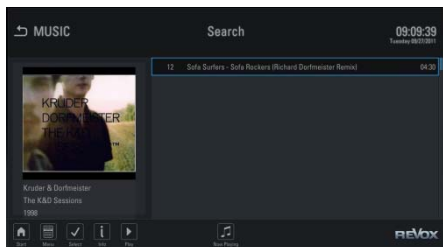
This means that if you were to enter "Love" as the search text, the system would return the titles "Love is all around me" and also "All you need is love", for example.

If the list is too long, a second search could be started.

The search function works identically across the three archives but the search is carried out in different fields.

Music archive:

- Artist
- Album
- Title

Movies archive:

- Category
- Title
- Series name
- Episode name

Pictures archive:

- Title
- Date
- Event

The use of these search fields means for example, that if you search on "Super Trouper", the system will find not only the track with that name but also the album "Super Trouper" by Abba and the other tracks on the album.

The search can be cancelled with the Back button ⏎.

Inserting a disc

CDs and DVDs can be inserted into the M117 drive through the slot on the front of the unit. You should insert the disc carefully until about 2/3 of the disc are in the slot and then the drive pulls the disc in the rest of the way.

If you feel any resistance when you insert the disc, you should check out the cause straight away. Perhaps there may already be a CD or a DVD in the drive.

Ejecting a disc

A CD or DVD can be ejected from the M117's drive by pressing the Eject button ⏏ on the remote control, the Disc button on the front of the unit or through the "Eject disc" option in the "Play" menu.

If there are multiple storages connected to the M117, you will first get a list of those sources, so that you only eject the desired source.

Editing entries

How you manage your archives has a big effect on how easy it is to find your way around them. Internet databases are

managed under many different aspects. Usually, data on a system like the M117 comes together from many different applications and as a result has metadata that doesn't necessarily correspond to your personal preferences.
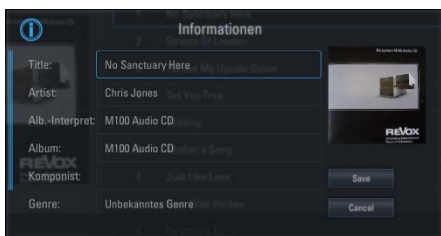
The metadata found in the three available archives can be modified through the M117 user interface. To do this, highlight the entry in question in one of the archives and press the Information button [i] on the remote control.

There are slight differences between the archives in the detail information that is shown. Highlight an entry within the Information window that you want to change and then press the [OK] button.

The text can now be changed through the number pad on the remote control or through the wireless keyboard, to meet the new requirements.

Confirm the change with the OK button. You can then go on to change further fields if necessary.

After all the desired entries have been modified, the changes have to be applied with the "Save" button. Selecting "Cancel" discards all changes.

Importing files

Importing data into all the archives (Movies, Music & Pictures) is very similar and for that reason is summarised into one chapter.

The Archive menu can be called with the Menu button [≣] in the corresponding archive (Movies, Music or Pictures). Within the menu, you will find the option "Import/Export". Select this option. With the next selection, you can import video files, audio files or pictures, depending on the archive.

Or if you are deploying a removable storage medium, the following dialogue window opens.
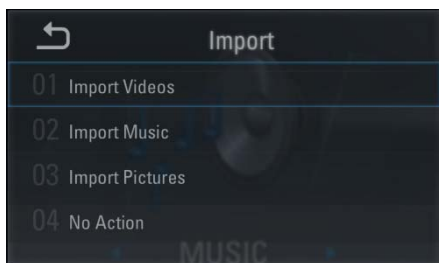
The views for the Movies and Pictures archives are identical to the Music archive, except that they do not have the options to import from an audio CD or to create an audio CD.

Select Import audio files and confirm your choice with the [OK] button.

In the next step, you see the available folders, hard discs and other storage media. Select the entry where the data to be imported is located. In this example, the data is on a USB stick.
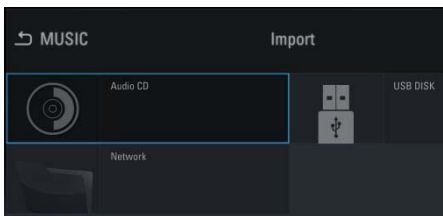
Highlight the USB stick and this takes you to the next step, where the content of the root folder of the USB stick is displayed.
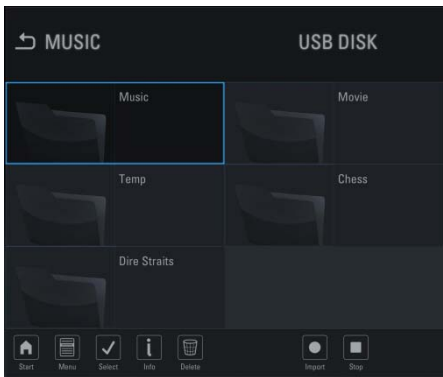
Using the Select button [✓], select the artist(s), album(s) or by going down a level, the individual title(s) that are to be imported.
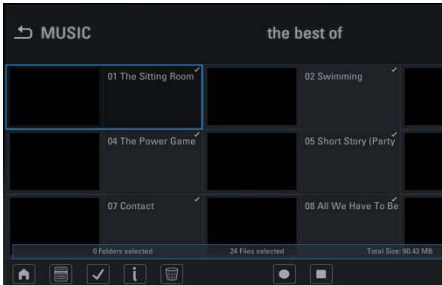
The import process can be started by pressing the Record button [●] or through the "Import highlighted titles" option, accessed through the Menu button.
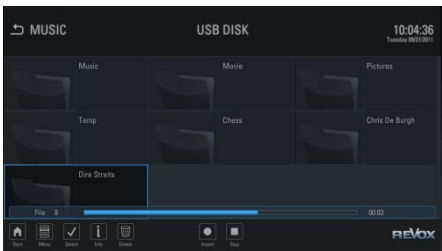
The progress of the import process is shown on screen. You can stop the import process at any stage by pressing the Stop button [■].

The imported data can then be found in the corresponding database.

Exporting files

The Revox Entertainment System also offers a corresponding function for exporting data from all three archives to external storage media.

Select the desired data in one of the archives with the Select button [✓]. The

number of files and the data quantity is also displayed here.
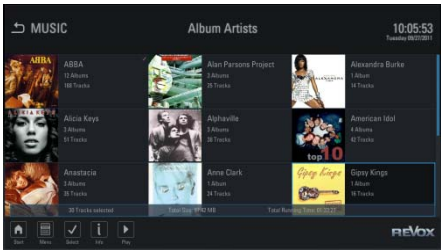
The Archive menu can be called with the Menu button ▤ in the corresponding archive (Movies, Music or Picture). Within the menu, you will find the option "Import/Export". Select this option. With the next selection, you find video files, audio files or pictures to export, depending on the archive.

The target storage medium is selected in the next window.
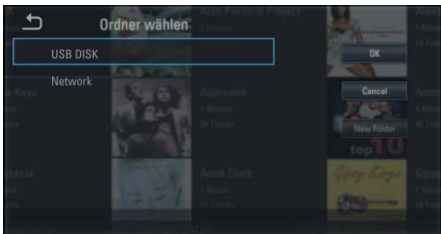
If required, you can create a new folder on the storage medium with the "New folder" button.
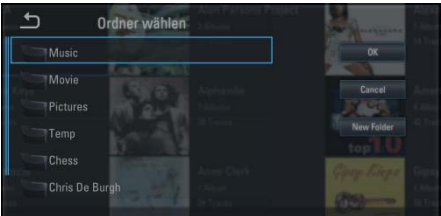
You can name this new folder according to your individual requirements.
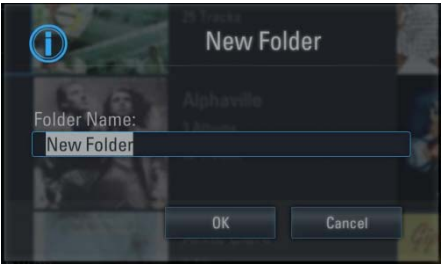
Now highlight the new folder and then confirm your choice and start the export process by pressing the ｜OK｜ button.
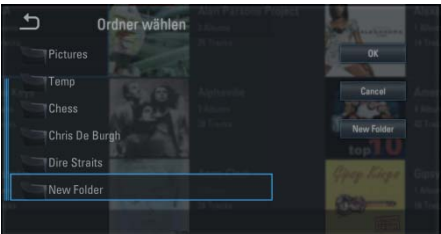
The data is now exported to the new storage location.

Refresh an archive

The Revox Entertainment System always needs a certain amount of time to refresh archive views.

If a newly recorded programme is not visible or if you cannot see the data following a larger import, you can

accelerate the updating process by triggering it manually.

To do this, select the "Refresh" option through the Menu button 🔳 in one of the archives.
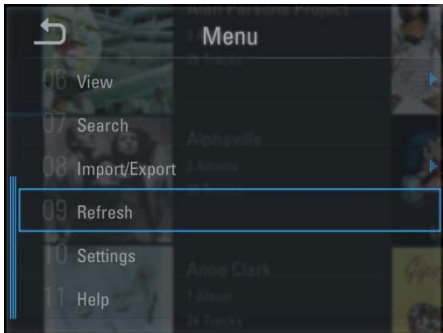
Updating is now done in the background.

In the case of large data quantities, for example after the first time you connect to your NAS, this update can take some time. A progress bar in the bottom right corner of the display shows you how far the process has got.

Managing media sources

Under Settings, you can integrate external storage media into the database through the "Movies", "Music" and "Pictures" tabs.

The process is the same for all three, so it is only described here once.

Please note that while it is possible to integrate as much external storage media as you want, you should give some thought as to how sensible it is to integrate mobile storage devices that may have very dynamic contents.

Example:
You connect a laptop to the network and make the audio, video and/or picture content available to the M117. Using the available data, you create a playlist or a picture album. The next time the playlist is called however, the laptop may be "on tour" and cannot make its content available to the M117.

For this reason, Revox recommends that ideally, you should create a central archive for all your data on a NAS storage medium that is always available to the M117.

Under Settings, navigate to the Media source entry and highlight the option "Add new source".
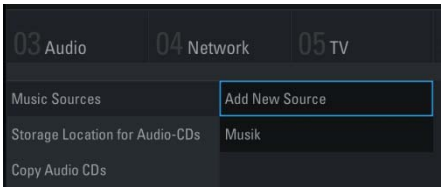
Enter a name for the source and a folder in the next dialogue window. Alternatively, you can search for the folder in your network using the Search function.
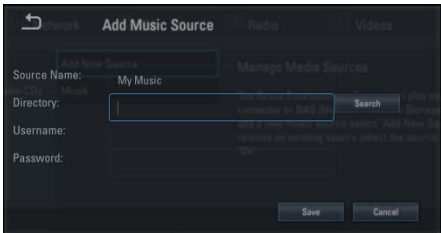
If you take the "Search" route, the following window shows you the options.

If your data is to be found on the network, highlight the Network option as shown below and confirm your choice with the OK button on your remote control.
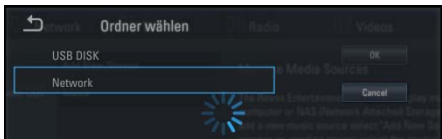
Now search step-by-step for the desired folder, using the arrow buttons and the OK button.

Once you have selected the folder, you can enter the Username and Password to enable the folder to be shared.

Then press the "Save" button.
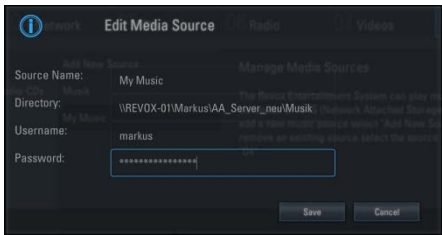
Following this, the new name is available to you in the media source selection.
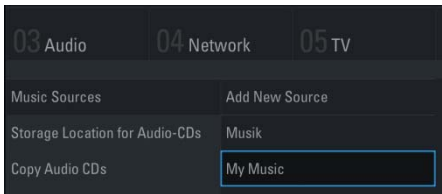
Ejecting media sources

As with many other devices, a USB storage device has to be ejected before it can be removed.

To do this, highlight the USB drive through the File manager.

Now press the Menu button on the remote control and select the "Eject" option.

If more than one source is connected, the GUI will ask you for your selection.
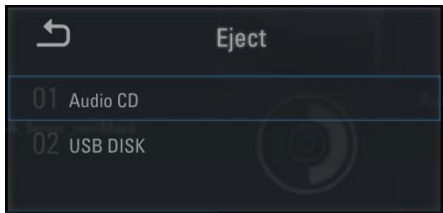
If you selected a USB device, the system will let you know, when the device can be removed from the system.
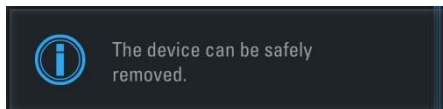
Please note that during the operation of TV, Internet and Slideshow additional communication windows can not be displayed. This means that you can not eject media while using those sources.

Help

One of the options that you will find in many menus is "Help".

If you select this option, the Revox Entertainment System Operating Manual opens as a PDF file.

You navigate within the PDF document using the arrow buttons. The Back button ⮐ returns you to the page that you called the Help function from.

General information

This chapter contains general information and advice that should make operating your M117 easier, together with help relating to the safe handling of your valuable data.

File access

There are several reasons why you may want to access the Revox Entertainment System file structure directly.

Depending on the configuration of the M117 and your network, the system's archive data is either visible or hidden.

Essentially, you can always reach the M117's audio and video data through its IP address. You can read this out through Settings - Network - IP address.

Now enter the IP address of your M117, preceded by two backslashes "\" into a file explorer application.
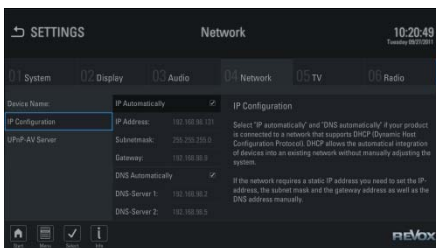
For example

\\192.168.178.35

Now a window opens on your computer where you have to enter a Username and Password. Please use "revox" for both of these inputs. It must be written in

lower case and these parameters cannot be changed.

Following this, the M117 archive "User Share" opens. In this folder, you will find the entries:

- Music
- Pictures
- Video

Within these folders, you will find your data that is stored on the M117's local hard disc.

You can copy your data from here onto other media or also copy data from other media to here in exactly the same way as you do with your computer.

Please note that formats that the M117 cannot process are copied but are not shown in the user interface.

If entries are deleted at this level, they cannot be restored. If the folders listed above are deleted, this can restrict the function of the M117.

If these folders have been deleted without the approval of Revox, you will be charged for any work required by remote maintenance to recreate them, even during the warranty period.

Data backup copies

The storage medium used in the Revox Entertainment System is a hard disc. Large quantities of data can be stored on this hard disc. A lot of this data will be very important to you and in the event of a hardware defect with the hard disc may be irretrievably lost.

For this reason we recommend that you make regular backups of the M117's "User Share" folder, in order to have your data available to you again if the M117's hard disc should fail.

In this respect, you should think particularly about your personal pictures and also about any data that you have bought online and where you do not have an original in the classical sense of the word, like with an audio CD, for example.

Also within the warranty period, Revox can offer a warranty on the hardware but not on the data.

Therefore, you should make regular backups of the data that you value.

If you have very extensive archives, your specialist dealer can also give you advice on the subject of external data storage in the shape of NAS drives.

Abbreviations & terminology

CI and CI+

Common Access Modules (CAM) with smartcards for decrypting the signals from pay-television channels can be deployed through the Common Interface slot. The enhanced CI+ Standard is used by some stations in order to prevent recordings, timeshifts or skipping advertisements.

CAM

A Common Access Module is the designation for products that can be deployed in a CI slot, in order to decrypt the signals from pay-television channels using a smartcard.

CSA

The Common Scrambling Algorithm is an encryption process and is used with DVB television, in order to encrypt the video data stream.

DiSEqC

Digital Satellite Equipment Control, in short DiSEqC, designates a digital control technology that is deployed in the building cabling of satellite receiver systems. DiSEqC control signals enable an extended functional scope with SAT reception, in comparison to the 14/18 volt and 22 kHz control signals.

DVB

Digital Video Broadcasting designates a uniform standard for the transmission of audio and video content. DVB has the versions S (Satellite), C (Cable) and T (Terrestrial).

DVI

DVI is the abbreviation for Digital Visual Interface, which is used as a general umbrella term to cover the technology. It is however also possible to transmit analogue as well as digital signals.

EPG

EPG stands for Electronic Programme Guide and is the name for the onscreen programme schedule guide. The EPG data is transmitted by television stations and Revox has no influence over its contents.

Exif

The Exchangeable Image File Format is a standard for the file format in which modern digital cameras store metadata about digitally taken pictures.

GUI

Graphical User Interface describes the onscreen dialogue that allows interaction between the user and the system.

HDCP

High-bandwidth Digital Content Protection is an encryption process that prevents the copying of digital data. HDCP is used to prevent the unallowed "branching off" of content as it travels between transmitter and receiver.

HDMI

High Definition Multimedia Interface has been developed for the fully digitalised transmission of audio and video data. The newest HDMI standard also allows data transmission.

HD+

HD+ is an encryption service that charges for the encryption of high definition film material that is broadcast on television. Currently this standard is restricted to Germany.

LAN

A Local Area Network is a network that connects computers and devices in a limited geographical area using cables.

LNB

A Low Noise Block converter is deployed in combination with a satellite dish. This converts the low noise signals at the focus of a satellite dish into a frequency that is suitable for coaxial cable.

NAS

NAS is the abbreviation for Network Attached Storage and means that it is a storage medium, usually hard discs, that can be accessed over the network.

OSD

OSD stands for On Screen Display and designates an element of a user interface that is displayed on the screen.

Smartcard

Chipcards that are used to confirm the authorised reception of encrypted pay-television programmes are usually designated as Smartcards.

URL

URL stands for Uniform Resource Locator. URLs identify and localise a resource that can be accessed by devices in computer networks.

USB

Various components and devices communicate and exchange data with a computer over the Universal Serial Bus.

WLAN

A Wireless Local Area Network is a network that connects computers and devices in a limited geographical area without using cables. In some countries, the designation WiFi is also used.

Service

If you should experience problems operating the M117 that you can't solve by reference to the Operating Manual, your first point of contact is always your specialist dealer.

Online support

If the problem cannot be resolved with the Operating Manual or with the help of the specialist dealer, Revox also offers online support for the Entertainment System.

You should use this function before taking the step of returning the unit to the Revox Customer Service department.

Please note that this service is only free-of-charge if it falls under the terms of the warranty. If the problem is caused by incorrect configuration, an unauthorised access to the operating system or by other actions for which Revox is not responsible, the customer service costs will be billed.

Factory settings

In some cases, it can help to resolve a situation by resetting the Revox Entertainment System to its factory settings. To do this press and hold the Home button 🏠 on your remote control for 10 seconds, followed by pressing the "0" on the number pad.

Please note that this action resets all the settings you may have made.

There is no dialogue window where you have to confirm that you really want to carry out the reset because firstly a long operation time (10 seconds), was selected to avoid the chance that it might be done accidentally and secondly, depending on the problem, there may not be any display available.

Your data is not affected by this action.

Online update

Revox will offer software updates for the M117 at irregular intervals. Revox makes these updates available over the Internet.

If an update is available, the M117 will inform you of this fact at start up, assuming that the M117 is connected to the Internet. You can then decide whether you want to download this update or not.

An online update can also be manually started through the Menu button 📃. In this case, follow the onscreen instructions.

Under no circumstances should the M117 be separated from the mains power supply during an update.

Warranty

Warranty covers a period of 24 months from the date of purchase.

Your specialist dealer is your first contact if you need service help. If he is unable to assist you, send your device, carriage free, without accessories to your national Sales Office.

Please supply a complete description of the fault together with your address.

Environmental protection

You can make a significant contribution to protecting our environment by recycling, material recovery or other forms of reutilisation of old equipment.

Please enquire at your nearest municipal recycling point.

Please note that empty batteries from the remote control should not end up in domestic waste but should be disposed of correctly at designated battery collection points.

Packaging

We recommend keeping the original box and packaging material so that if required, the device can be transported safely.

Any damage in transit caused by using insufficient packaging is not covered under the terms of the warranty.

Disposal

The EU Directive 2002/96/EC governs the correct return, handling and recycling of used electronic devices. For this reason, used electronic devices must be disposed of separately. This device should not be disposed of with normal domestic waste. You can take your used device free-of-charge to recognised disposal points. You can get further information about the return of such devices from your local authority, also in non-EU countries.

Wireless keyboard

As well as the remote control, the optional Revox wireless keyboard can also be used to operate your M117.

Your specialist dealer can order the keyboard from Revox for you, under the Part number 1.554.096.00.

The wireless keyboard is always helpful if larger amounts of text have to be entered or when mouse control is necessary, as for example with the Internet browser.

To a large extent, you can replace the Revox remote control by the wireless keyboard and operate the M117 with the keyboard entirely.

Keyboard commands

The following table gives you the corresponding keyboard commands:

RC	Keyboard
→	Arrow buttons
OK	Enter/Return
☰	CTRL + M
⤶	CTRL + Back
0-9	Number pad input
PG↑	Page +
PG↓	Page -
✓	CTRL + Spacebar
🗑	CTRL + Delete
i	CTRL + I
◀∴	CTRL + SHIFT + A

RC	Keyboard
⁞⁞	CTRL + SHIFT + V
▶	CTRL + P
‖	CTRL + SHIFT + P
■	CTRL + S
●	CTRL + R
◀◀	CTRL + Arrow left
▶▶	STRG + Arrow right
◀◀	CTRL + F
▶▶	CTRL + B
◀+	CTRL + + *(Plus)*
◀−	CTRL + - *(Minus)*
◀	CTRL + . *(Full stop)*
⌂	CTRL + F1
▭	CTRL + F2
▤	CTRL + F3
⁞⁞⁞	CTRL + F4
♪	CTRL + F5
▲	CTRL + F6
⊕	CTRL + F7
EPG	CTRL + F8
◐	CTRL + F9
TXT	CTRL + T
▬	CTRL + ALT + P
CH	CTRL + L
⏏	CTRL + E

Installation

In order to connect the optional wireless keyboard to the M117, plug the USB receiver supplied with the wireless keyboard into one of the USB sockets on the rear of the M117.

Then insert the batteries into the wireless keyboard and move the sliding ON/OFF switch on the underside of the keyboard to the ON position.

During production, the receiver and the keyboard are synchronised to the same radio channel.

Now press a key on the wireless keyboard to test whether it can communication with the M117.

Manual synchronisation

If the M117 doesn't respond to the keyboard command, a manual synchronisation has to be carried out. To do this, press the pairing button on the underside of the keyboard while the M117 is switched on.

Now the middle LED on the front of the wireless keyboard lights up for about 10
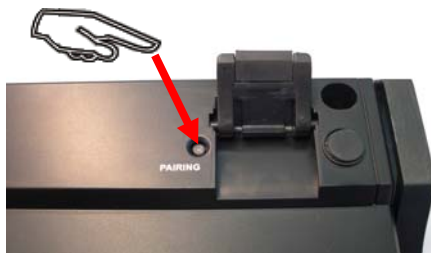
seconds. Following this, you can operate the M117 through the keyboard.

Sometimes, even after carrying out this manual synchronisation, the wireless keyboard still does not communicate with the M117.

In this case, first press the LED button on the USB receiver.

The LED then flashes three times. Then press the pairing button on the wireless keyboard again.

The keyboard should be close to the USB receiver during this synchronisation process.

If there is still no communication, please use the extension cable supplied and position the USB receiver in such a position that there is a sight line between the wireless keyboard and the USB receiver.

Status LEDs

The status LED on the front of the wireless keyboard give you information about the current state of the device.

Pairing LED

This indicates that the keyboard and the USB receiver are currently in pairing mode, i.e. re-synchronising on a common "radio channel". It goes out once synchronisation is complete.

Transmit LED

This indicates that the information has been transmitted successfully from the keyboard, while operating the keyboard or the touchpad.

Battery status LED

This indicates that the power left in the batteries has fallen below 2.4 volts. It remains on until new batteries are inserted or until the batteries are empty. It only lights up if the keyboard is not in sleep mode.

Operating modes

Standby

If no keyboard or touchpad inputs have been made after a timeout of 30 minutes, the keyboard goes into standby mode automatically, in order to conserve the batteries.

Readiness state

In order to bring the keyboard out of standby mode, just press any key on the keyboard (not a mouse button or the touchpad).

Connection mode

The switch from standby to readiness state usually takes just a few seconds but sometimes can take a little longer.

Mouse function

You can move the M117 mouse pointer with the touchpad on the wireless keyboard. To do this, just slide a fingertip across the movement-sensitive field and the mouse pointer will move accordingly. You can execute a left or right mouse click using the respective buttons below the touchpad.

Dual-function keys

Some of the keys on the wireless keyboard have a dual-function. You can identify them by the blue printing on them. You activate/deactivate the number block with the blue "NUM" key in the top row.

If the "NUM" function is activated, you can deactivate it briefly with the blue-printed "Fn" key in the bottom row.

In normal operation ("NUM" deactivated), you can operate the arrow and page keys in combination with the blue-printed "Fn" key.

"NUM lock", "CAPS" and "Scroll" are automatically deactivated after each restart.

TV programming

Programming by model number

- Press the *F* and *OK* buttons on the remote control for at least 3 seconds, until the green LED flashes twice.

- Select and enter a 3 digit TV code from the code list that corresponds to your television brand.

- The green LED flashes twice to confirm the code input.

- If an invalid 3 digit code has been entered, the LED lights up for 3 seconds to indicate an error and the remote control returns to the original mode.

- If your television doesn't react or reacts incorrectly, repeat the programming and enter the next 3 digit code from the list.

- If none of the defined codes controls your television, use the automatic code search option. See *Automatic search*.

If no button is pressed for 10 seconds during programming, the remote control automatically returns to the original mode.

Search with manufacturer number

- Switch your television on.

- Press the *F* and *OK* buttons on the remote control for at least 3 seconds, until the green LED flashes twice.

- Enter the code **0 0 3**. The green LED flashes twice to confirm the input.

- Enter the three digit manufacturer number from the manufacturer list. The LED flashes twice to confirm the input.

- Press and hold the *Power* button until the television switches itself off.

- Then release the button immediately and press the *OK* button, in order to save the selected television code. The LED lights up every 1.5 seconds while the code search is being made.

- If a 3 digit code is not recognised, the green LED lights up for 3 seconds and the remote control is reset to the normal state (error display).

- If your television brand (manufacturer) is not in the code list, indicated by the remote control flashing 5 times at the end of the list, use the automatic search function.

Automatic search

- Switch your television on.

- Press the *F* and *OK* buttons on the remote control for at least 3 seconds, until the LED flashes twice.

- Enter the code **0 0 1**. The green LED flashes twice to confirm the input.

- Press and hold the *Power* button until the television switches itself off. (This can take up to 15 minutes)

- Once it has switched off, release the *Power* button immediately and press the *OK* button, in order to save the selected television code.

- The green LED lights up every 1.5 seconds while the search is being made.

If the *Power* button is not released in time after the television switches off, the television has to be switched back on manually.

The last 5 codes can be called again with the ↓ navigation button. You can return to search mode with the ↑ navigation button.

- Once the correct code has been found, this has to be confirmed with the *OK* button.
- After searching is completed, the remote control returns to its original status.

The remote control flashes 5 times at the end of the list.

If no button is pressed for 10 seconds during programming, the remote control automatically returns to the original mode.

Reading out the code

To read out an already programmed remote control (code):

- Press the *F* and *OK* buttons on the remote control for at least 3 seconds, until the LED flashes twice.
- Enter the code **0 0 2**. The green LED flashes twice to confirm the input.
- The *1* button has to be pressed to search for the first digit in the programmed code. The LED starts to flash, e.g. with the code 3 5 6, it flashes three times.
- The *2* button has to be pressed to search for the second digit in the programmed code. The LED starts to flash, e.g. with the code 3 5 6, it flashes five times.
- The *3* button has to be pressed to search for the third digit in the programmed code. The LED starts to flash, e.g. with the code 3 5 6, it flashes six times.

If the digit has the value 0, the LED doesn't flash.

If no button is pressed for 10 seconds during programming, the remote control automatically returns to the original mode.

Reset

Press the *F* and *OK* buttons on the remote control for at least 3 seconds, until the LED flashes twice.

Enter the code **0 0 0**.

The green LED flashes twice to confirm the input.

The remote control is now reset to its original state.

The television mode now has no function (no code is programmed).

TV codes (sorted by manufacturer)

B

Bang & Olufsen   439 568 586

C

Continental Ed.   159 818 822 831

D

Daewoo	155	158	163	165	166	167
	168	169	170	171	222	439
	442	466	468	526		

F

Fujitsu	240	272	563	781	784	804
	814					

Fujitsu General   272 814

Fujitsu Siemens   500

G

Goldstar	152	155	159	213	220	246
	269	272	290	294	363	437
	439	450	456	508	509	526
	626	702	793	804		

Graetz   413 432 435 493

Grundig	154	159	242	243	244	245
	246	247	249	250	251	255
	258	259	262	264	266	267
	270	339	360	362	364	365
	369	370	414	430	437	438
	439	450	465	469	470	481
	494	498	534	567	734	764

H

Hitachi	169	171	197	211	258	312
	361	382	387	413	432	435
	439	455	456	461	466	468
	470	474	475	492	493	641
	653	671	672	673	675	676
	677	678	679	680	681	682
	683	684	685	686	687	688
	689	690	691	692	693	694
	695	696	697	698	699	700
	701	702	703	704	705	706
	707	708	769	788	794	804

	818	831				
Hitachi Fujian	673					
Humax	162	715	716	717	718	719
	720	747	753			

I

ITT	195	197	251	310	360	382
	387	395	635	641	734	783
	794	818				

J

JVC	200	201	202	203	204	205
	206	207	208	209	286	439
	635	783				

L

Lenco	155	156	158	173	294	439
	486	799				

LG	465	492	493	508	509	526
	529	532	603	618	619	620
	621	622	623	625	626	627
	628	630	631	666		

Loewe	210	229	312	428	*429*	437
	439	446	447	476	482	519
	583	588				

Luxor	155	284	363	368	382	384
	387	390	392	393	398	413
	432	435	475	523	539	783
	804					

M

Marantz   361 431 437 439 491

Matsui	155	159	217	246	247	250
	286	310	341	343	344	345
	413	432	435	526	563	604
	635	636	639	659	731	734
	737					

Medion	382	383	413	432	435	437
	468	492	507	508	509	510
	543	661	763	780	781	784

TV codes (sorted by manufacturer)

Metz	246	247	248	251	252	253
	254	257	258	259	261	399
	400	401	402	413	432	435
	492	526	582	583	587	589
	590	*593*	781			
Mitsubishi	155	176	177	178	179	180
	181	246	259	310	437	439
	466	470	583	413	432	435

N

Naim	499					
NEC	155	290	310	347	610	750
	751	752	753			
Nokia	146	155	284	285	286	290
	294	368	382	384	386	387
	388	389	390	391	392	393
	395	396	397	398	439	450
	583	635	641	783	790	
Nordmende	195	312	313	345	437	450
	818	820	822	825	827	828
	831					

O

Orion	147	155	182	183	294	310
	314	341	342	344	345	353
	413	432	435	437	438	439
	442	445	449	450	481	514
	560	604	734	735	737	764
	817					
Others	142	146	147	155	210	213
	215	246	286	288	310	312
	322	363	413	437	439	456
	490	516	526	530	540	635
	688	711	735	788	804	824

P

Panasonic	149	150	*225*	226	227	228
	229	230	231	232	233	234
	235	236	237	238	239	246
	254	258	259	437	439	788
Philips	258	272	312	407	408	410
	411	412	415	417	420	421
	422	423	424	425	426	431

	433	434	437	438	439	440
	441	443	450	462	469	470
	480	481	484	489	526	549
	550	551	552	562	648	702
	804	818	831			
Pioneer	312	351	352	354	355	437
	439	449	573	574	575	577
	578	579	580	581	831	
Quelle	150	155	202	220	229	246
	247	251	258	259	269	270
	272	274	279	280	281	282
	284	310	360	363	365	367
	377	387	390	392	395	398
	413	427	431	432	435	437
	438	439	446	449	450	476
	526	552	553	560	562	565
	604	641	648	653	734	735
	780	789	798	814	828	834

R

Revox	365	437	439	476	*781*	
Roadstar	147	155	268	294	341	413
	427	432	435	438	439	449
	450	465	508	509	538	
Runco	290					

S

Saba	210	247	312	313	372	405
	508	799	816	818	820	822
	827	828	829	830	831	
Samsung	155	156	160	161	213	269
	290	294	298	316	317	318
	319	321	322	323	324	325
	327	328	329	330	331	332
	333	334	335	363	415	419
	437	439	459	511	512	513
	526	530	540	712	788	789
	804					
Sansui	155	290	294	310	437	439

TV codes (sorted by manufacturer)

Sanyo	155	213	269	271	274	310
	361	413	432	435	492	493
	508	528	547	583	632	633
	634	635	636	637	638	639
	640	641	642	659	788	797
	798	804				

Schneider	147	155	220	271	272	286
	294	361	362	377	406	413
	415	432	435	437	438	439
	447	449	450	455	465	468
	469	470	471	472	481	485
	502	507	508	509	510	517
	526	527	528	531	535	536
	544	547	780			

SEG	147	155	213	221	294	362
	409	413	427	432	435	436
	492	493	565	780	797	799

Sharp	*185*	186	187	188	189	190
	191	192	193	194	195	196
	197	198	199	437	439	653
	689	794				

Siemens	246	247	250	251	258	259
	266	279	282	437	439	448
	470	490	528	547	811	

Silva Schneider	155	413	455	472	492	493
	500	501	507	510	517	525
	526	527	528	529	535	546
	547	596	644	649	665	

Sony	279	310	311	437	438	439
	552	553	554	555	556	557
	558	560	561	562	564	565
	566					

T

Tatung	159	211	310	326	424	437
	439	449	475	517	524	528
	539	541	547	584	707	788
	804	805				

Technica	290	413	432	435	492	493
	507	510	779			

Technics	439					

Telefunken	221	280	281	312	313	373
	395	404	405	418	439	500
	501	781	814	816	818	820
	821	822	823	825	826	828
	831	834				

Tevion	413	432	435	468	508	509
	528	547	611	661	749	753
	763	780				

Thomson	172	216	246	274	280	312
	360	372	373	374	375	376
	405	471	803	818	820	822
	823	826	827	828	831	834

Toshiba	169	246	247	249	250	290
	317	338	340	341	365	413
	432	435	437	439	508	509
	635	641	643	646	648	650
	652	653	657	658	659	758
	759					

U

Uher	272	361	365	439	476	560
	799	814				

Universum	155	221	246	251	258	259
	266	268	269	274	280	284
	294	310	360	383	395	413
	427	432	435	436	437	438
	439	450	469	496	526	562
	780	814				

W

Watson	147	155	282	413	427	432
	435	439	450	508	509	780

Whirlpool	372	373	470			

Y

Yamaha	648	650	674	686		

Code table information

This code table only includes a small extract for the most commonly used models and brands.

The complete list can be downloaded free-of-charge from the Download area of the Revox web site www.revox.de.

Television models that can be intelligently controlled through the Re:connect products M200 and M203 are shown **bold**, and in *italics* in the tables.

Manufacturer code list (overview)

Aiwa	113		*OTHER_BRANDS*	226
Akai	200		Others	211
Bang & Olufsen	131		Otto Versand	220
Blaupunkt	171		Panasonic	191
Braun	101		Philips	222
Conrac	144		Pioneer	173
Continental Edison	134		Quelle	224
Fujitsu	144		Revox	157
Fujitsu General	164		Saba	182
Goldstar	184		Sagem	119
Graetz	166		Samsung	221
Grundig	219		Sansui	193
Hitachi	225		Sanyo	214
Humax	150		Schneider	223
ITT	195		Sharp	179
JVC	162		Siemens	209
LG	185		Silva Schneider	189
Loewe	163		Sony	177
Marantz	141		Technisat	157
Medion	188		Telefunken	202
Metz	203		Tevion	188
Mitsubishi	167		Thomson	192
Mitsubishi	194		Toshiba	213
Motorola	164		Universum	215
NEC	151		Watson	175
Neckermann	201		Whirlpool	120
Nokia	207		Yamaha	127
Nordmende	182			
Orion	212			

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